

State of Delaware
Department of Natural Resources & Environmental Control
Division of Air & Waste Management
Air Quality Management Section
156 South State Street
Dover, DE 19901

Regulation No. 30 (Title V) Operating Permit

Facility I.D. Number: 1000300016

Permit Number: AQM-003/00016 - Part 3 (Renewal 1) DRAFT

Effective Date: _____

Expiration Date: 5 Years from Date of Issuance

Pursuant to 7 Del. C. Chapter 60, Section 6003 and the State of Delaware "**Regulations Governing the Control of Air Pollution**," Regulation No. 2, Section 2 and Regulation No. 30, Section 7(b), approval of the Department of Natural Resources and Environmental Control (Department) is hereby granted to operate the emission units listed in Condition 1 of this permit; subject to the terms and conditions of this permit.

This approval is granted to:

Permittee (hereafter referred to as "Company")	Plant Site Location (hereafter referred to as "Facility")
The Premcor Refining Group Inc. Delaware City, Delaware 19706 Responsible Official: Mr. Andrew Kenner, Vice President and General Manager	The Premcor Refining Group Inc. 4550 Wrangle Hill Road Delaware City, DE 19706

The nature of business of the Facility is Petroleum Refining. The Standard Industrial Classification code is 2911. The North American Industry Classification System code is 324110.

All terms and conditions of this permit are enforceable by the Department and by the U.S. Environmental Protection Agency (EPA), or if specifically designated as "State Enforceable Only," by the Department only.

[Reference Regulation No. 30 Section 6(b)(1), dated 12/11/2000]

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Condition 1. Emission Units Identification.

[Reference Regulation No. 30 Section 3(c)(1), dated

12/11/2000]

a. Emission Units Information.

Table 2: Emission Points, and Units:

Designation	Emission Unit	Source Description
DCPP	80	Boiler #1 (618 mmBTU/hr input, natural gas and desulfurized refinery fuel gas fired)
	80	Boiler #2 (716 mmBTU/hr input, natural gas and desulfurized refinery fuel gas fired)
	80	Boiler #3 (618 mmBTU/hr input, syngas, natural gas, and desulfurized refinery fuel gas fired)
	80	Boiler #4 (737 mmBTU/hr input, desulfurized refinery fuel gas)

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Designation	Emission Unit	Source Description
		fired)
Gas Plant	82	Texaco Gasifier 1 (235 ton/hr synthesis gas from both Gasifiers 1 and 2)
	82	Quench (gas cooler) for Gasifier 1
	82	Texaco Gasifier 2 (235 ton/hr synthesis gas from both Gasifiers 1 and 2)
	82	Quench (gas cooler) for Gasifier 2
	82	Amine Acid Gas Removal system
	82	Syngas Flare
	50	Three-Cell Linear Mechanical Draft Evaporative Cooler (gas flow of 3,000,000 ACFM, cooling water flow of 30,000 gallons per minute)
CCU	84	CCU1 & CCU2 - Each, one Gas Turbine (LHV input of 824.7 mmBTU/hr, HHV input of 878.4 mmBTU/hr, syngas or low sulfur diesel fuel fired)
	84	Duct Burner (215 mmBTU/hr, HHV of 215 mmBTU/hr, natural gas fired, one each, CCU1 & CCU2)
	84	Heat Recovery Steam Generator (one each, CCU1 & CCU2)
	84	Electric Generator (90 MW nominal, one each, CCU1 & CCU2)

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b. Regulation No. 2 Permit Identification¹

Reference Number	Full Regulation No. 2 Permit Designation
<u>APC-90/0288 (A5)</u>	<u>APC-90/0288-OPERATION (Amendment 5) - Boiler No. 1</u> issued July 19, 2006. Boiler No. 1, Unit 80-1.
<u>APC-90/0289 (A6)</u>	<u>APC-90/0289-OPERATION (Amendment 6) - Boiler No. 2</u> issued July 19, 2006. Boiler No. 2, Unit 80-2.
<u>APC-90/0290 (A5)</u>	<u>APC-90/0290-OPERATION (Amendment 5) - Boiler No. 3</u> issued July 19, 2006. Boiler No. 3, Unit 80-3.
<u>APC-90/0291</u>	<u>APC-90/0291-OPERATION - Boiler #4</u> issued February 2, 1993. Boiler No. 4, Unit 80-4.
<u>APC-97/0504</u>	<u>APC-97/0504-OPERATION</u> issued August 6, 2003. Gasifiers #1 & #2, two gas coolers, amine acid gas removal system, syngas flare - Unit 82, One 3-cell linear mechanical draft evaporative cooler - Unit 50.
<u>APC-97/0503 (A3)</u>	<u>APC-97/0503-OPERATION (Amendment 3) (LAER)(NSPS)</u> issued July 19, 2006. Two combined cycle units, two duct burners, two heat recovery steam generators, two electric generators - Unit 84.

Condition 2. General Requirements.

a. Certification.

1. Any application form, report or compliance certification submitted to the Department/EPA as required by Regulation No. 30 shall be certified by a responsible official as to truth, accuracy, and completeness. Such certification shall be signed by a responsible official and shall contain the following language: "I certify, based on information and belief formed after

¹ This chart identifies the underlying permits whose provisions have been incorporated into this Title V permit and specifies the references number that will be used to identify the source of the underlying permit condition throughout this Title V permit.

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reasonable inquiry, the statements and information in the document are true, accurate, and complete." [Reference Regulation No. 30 Section 5(f), dated 11/15/1993 and 6(c)(1), dated 12/11/2000]

2. Any report of deviations required under Conditions 3(c)(2)(ii) or 3(c)(2)(iii) that must be submitted to the Department within ten (10) calendar days of the deviation, may be submitted in the first instance without a certification provided a certification meeting the requirements of Condition 2(a)(1) is submitted to the Department within ten (10) calendar days thereafter, together with any corrected or supplemental information required concerning the deviation. [Reference Regulation No. 30 Section 6(a)(3)(iii)(D), dated 12/11/2000]
3. Each document submitted to the Department/EPA pursuant to this permit shall be sent to the following addresses:

State of Delaware - DNREC Division of Air and Waste Management Air Quality Management Section 156 South State Street Dover, DE 19901 Attn: Program Administrator	Section Chief Air Enforcement Section (3AP13) United States Environmental Protection Agency Mail Drop 3AP10 1650 Arch Street Philadelphia, PA 19103
No. of copies: <u>2</u>	No. of copies: <u>1</u>

b. Compliance.

1. The Company shall comply with all terms and conditions of this permit. Any noncompliance with this permit constitutes a violation of the applicable requirements under the Clean Air Act, and/or the State of Delaware "**Regulations Governing the Control of Air Pollution,**" and is grounds for an enforcement action, for permit termination, revocation and reissuance or modification, or for denial of a permit renewal. [Reference Regulation No. 30 Sections 6(a)(7)(I), dated 12/11/2000]
2. i. For applicable requirements with which the source is in compliance, the Company shall continue to comply with such requirements. [Reference Regulation No. 30 Sections 5(d)(8)(iii)(A), dated 12/11/2000, and 6(c)(3), dated 12/11/2000]

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- ii. For applicable requirements that will become effective during the term of this permit, the Company shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement. *[Reference Regulation No. 30 Sections 5(d)(8)(iii)(B), dated 12/11/2000, and 6(c)(3), dated 12/11/2000]*
3. Nothing in Condition 2(b)(1) of this permit shall be construed to preclude the Company from making changes consistent with Condition 2(m)(3) [Minor Permit Modifications] or Condition 4(a) [Operational Flexibility]. *[Reference Regulation No. 30 Sections 6(h), dated 12/11/2000, and 7(e)(1)(v), dated 12/11/2000]*
4. The fact that it would have been necessary to halt or reduce an activity in order to maintain compliance with the terms and conditions of this permit shall not constitute a defense for the Company in any enforcement action. Nothing in this permit shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in assessing penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continuing operations. *[Reference Regulation No. 30 Section 6(a)(7)(ii), dated 12/11/2000]*
5. The Company may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency or a malfunction if both the record keeping requirements in Condition 3(b)(2)(iii) and the reporting requirements in Condition 3(c)(2)(ii)(A) are satisfied. *[Reference Regulation No. 30 Section 6(g)(2), dated 12/11/2000]*
6. In any enforcement proceeding, the Company seeking to establish the occurrence of an emergency or malfunction has the burden of proof. This provision is in addition to any emergency or malfunction provision contained in any applicable requirement. *[Reference Regulation No. 30 Section 6(g)(4), dated 12/11/2000 and 6(g)(5), dated 12/11/2000]*
7. The Company shall not cause the Ambient Air Quality Standards to be exceeded. *[Reference Regulation No. 3, dated 3/29/88]*
8. If required, the schedule of compliance in Condition 5(a) of this permit is supplemental to and shall not sanction noncompliance with the applicable requirements upon which it is based. *[Reference Regulation No. 30 Section 5(d)(8)(iii)(C), dated 11/15/1993]*

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9. Nothing in this permit shall be interpreted to preclude the use of any credible evidence to demonstrate noncompliance with any term of this permit. *[Reference 62 FR 8314, dated 2/24/97]*
 10. All terms and conditions of this permit are enforceable by the Department and by the US Environmental Protection Agency ("EPA") unless specifically designated as "State Enforceable Only". *[Reference Regulation No. 30 Section 6(b)(1), dated 12/11/2000]*
 11. This Title V permit does not grant permission to emit any pollutant other than as specified in this permit. *[Reference 7 Del. C 6003]*
- c. **Confidentiality.** The Company may make a claim of confidentiality for any information or records submitted to the Department. However, by submitting a permit application, the Company waives any right to confidentiality as to the contents of its permit, and the permit contents will not be entitled to protection under 7 Del. C., Chapter 60, Section 6014. *[Reference Regulation No. 30 Section 5(a)(4), dated 11/15/1993, 6(a)(3)(iii)(E), dated 12/11/2000, and 6(a)(7)(v), dated 12/11/2000]*
1. Confidential information shall meet the requirements of 7 Del. C., Chapter 60, Section 6014, and 29 Del. C., Chapter 100. *[Reference Regulation No. 30 Section 5(a)(4), dated 11/15/1993]*
 2. If the Company submits information to the Department under a claim of confidentiality, the Company shall also submit a copy of such information directly to the EPA, if the Department requests that the Company do so. *[Reference Regulation No. 30 Section 5(a)(4), dated 11/15/1993]*
- d. **Construction, Installation, or Alteration.** The Company shall not initiate construction, installation, or alteration of any equipment or facility or air contaminant control device which will emit or prevent the emission of an air contaminant prior to submitting an application to the Department under Regulation No. 2, and, when applicable, Regulation No. 25, and receiving approval of such application from the Department; except as exempted in Regulation No. 2 Section 2.2 of the State of Delaware "**Regulations Governing the Control of Air Pollution.**" *[Reference Regulation No. 2 Section 2.1, dated 6/1/97 and Regulation No. 30, Section 7(b)(3), dated 12/11/2000]*
- e. **Definitions/Abbreviations.** Except as specifically provided for below, for the purposes of this permit, terms used herein shall have the same meaning accorded to them under the applicable requirements of the Clean Air Act and the State of Delaware "**Regulations Governing the Control of Air Pollution.**"
1. "Act" means the Clean Air Act, as amended by the Clean Air Act Amendments of November 15, 1990, 42 U.S.C. 7401 et seq. *[Reference Regulation No. 30 Section 2, dated 12/11/2000]*
 2. "AP-42" means the Compilation Of Air Pollutant Emission Factors, Fifth Edition, AP-42, dated January 15, 1995, as amended with Supplements "A" dated February 1996, "B" dated November 1996, "C" dated November 1997, "D" dated August 1998, "E" dated September

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1999, and "F" dated September 2000 and the December 2001 update, the December 2002 update and the December 2003 update.

3. "CFR" means Code of Federal Regulations.
4. "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. *[Reference Regulation No. 30 Section 6(g)(1), dated 12/11/2000]*
5. "Malfunction" means any sudden and unavoidable failure of air pollution control equipment or process equipment or of a process to operate in a normal or usual manner, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the malfunction. A malfunction shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. *[Reference Regulation No. 30 Section 6(g)(1), dated 12/11/2000]*
6. "Reg." and "Regulation" mean State of Delaware "**Regulations Governing the Control of Air Pollution.**"
7. "**Regulations Governing the Control of Air Pollution**" means the codification of those regulations enacted by the Delaware Department of Natural Resources and Environmental Control, in accordance with 7 Del. C., Chapter 60, Section 6010.
8. "Stack Test Based Emissions Factor" means an emissions factor derived from the results of the most recent compliance stack test performed within the last five (5) years for the unit in question.

f. Duty to Supplement.

1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the Company shall promptly submit to the Department such supplementary facts or corrected information. *[Reference Regulation No. 30 Section 5(b), dated 11/15/1993]*
2. The Company shall promptly submit to the Department information as necessary to address any requirement(s) that become applicable to the source after the date it filed a complete application, but prior to release of a corresponding draft permit. *[Reference Regulation No. 30 Section 5(b), dated 11/15/1993]*
3. The Company shall furnish to the Department, upon receipt of a written request and within a reasonable time specified by the Department:
 - i. Any information that the Department determines is reasonably necessary to evaluate or take final action on any permit application submitted in accordance with Condition 2(l) or 2(m) of this permit. The Company may request an extension to any deadline the Department may impose on the response for such information. *[Reference Regulation No. 30 Section 5(a)(2)(iii), dated 11/15/1993]*
 - ii. Any information that the Department requests to determine whether cause exists to modify, terminate or revoke this permit, or to determine compliance with the terms and conditions of this permit. *[Reference Regulation No. 30 Section 6(a)(7)(v), dated 12/11/2000]*

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- iii. Copies of any record(s) required to be kept by this permit. *[Reference Regulation No. 30 Section 6(a)(7)(v), dated 12/11/2000]*
- g. **Emission Trading.** No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit. *[Reference Regulation No. 30 Section 6(a)(9), dated 12/11/2000]*
- h. **Fees.** The Company shall pay fees to the Department consistent with the fee schedule established by the Delaware General Assembly. *[Reference Regulation No. 30 Section 6(a)(8), dated 12/11/2000 and Section 9, dated 12/11/2000]*
- i. **Inspection and Entry Requirements.** Upon presentation of identification, the Company shall allow authorized officials of the Department to perform the following:
1. Enter upon the Company's premises where a source is located or an emissions-related activity is conducted, or where records that must be kept under the terms and conditions of this permit are located. *[Reference Regulation No. 30 Section 6(c)(2)(i), dated 12/11/2000]*
 2. Have access to and copy, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. *[Reference Regulation No. 30 Section 6(c)(2)(ii), dated 12/11/2000]*
 3. Inspect, at reasonable times and using reasonable safety practices, any facility, equipment (including monitoring and air pollution control equipment), practice, or operation regulated or required under this permit. *[Reference Regulation No. 30 Section 6(c)(2)(iii), dated 12/11/2000]*
 4. Sample or monitor, at reasonable times, any substance or parameter for the purpose of assuring compliance with this permit or any applicable requirement. *[Reference Regulation No. 30 Section 6(c)(2)(iv), dated 12/11/2000]*
- j. **Permit and Application Consultation.** The Company is encouraged to consult with Department personnel before submitting an application or, at any other time, concerning the operation, construction, expansion, or modification of any installation, or concerning the required pollution control devices or system, the efficiency of such devices or system, or the pollution problem related to the installation. *[Reference Regulation No. 30 Section 5(a)(1)(vii), dated 11/15/1993]*
- k. **Permit Availability.** The Company shall have available at the facility at all times a copy of this permit and shall provide a copy of this permit to the Department upon request. *[Regulation No. 2 Section 8.1, dated 6/1/97]*
- l. **Permit Renewal.** This permit expires on April 10, 2010, except as provided in Condition 2(l)(3) below. *[Reference Regulation No. 30 Section 6(a)(2), dated 12/11/2000]*
1. Applications for permit renewal shall be subject to the same procedural requirements, including those for public participation, *affected state* comment, and EPA review, that apply to initial permit issuance under Regulation No. 30 Section 7(a), except that an application for permit renewal may address only those portions of the permit that the Department determines require revision, supplementing, or deletion, incorporating the remaining permit terms by reference from the previous permit. The Department may similarly, in issuing a draft renewal permit or proposed renewal permit, specify only those portions that will be revised, supplemented, or deleted, incorporating the remaining permit terms by reference. *[Reference Regulation No. 30 Section 7(c)(1), dated 12/11/2000]*
 2. The Company's right to operate shall cease upon the expiration date unless a timely and complete renewal application has been submitted to the Department not earlier than eighteen (18) months nor later than twelve (12) months prior to the expiration date. *[Reference Regulation No. 30 Section 7(c)(2), dated 12/11/2000]*
 3. If a timely and complete application for a permit renewal is submitted to the Department pursuant to Regulation No. 30, Section 5(a)(2)(iv), dated 12/11/2000, and Section 7(c)(1),

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dated 12/11/2000, and the Department, through no fault of the Company, fails to take final action to issue or deny the renewal permit before the end of the term of this permit, then this permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time. *[Reference Regulation No. 30 Section 7(c)(3), dated 12/11/2000]*

m. Permit Revision and Termination.

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. Except as provided under Condition 2(m)(3) [Minor Permit Modification], the filing of a request by the Company for a permit modification, revocation and reissuance, or termination, or of a modification of planned changes or anticipated noncompliance does not stay any term or condition of this permit. *[Reference Regulation No. 30 Section 6(a)(7)(iii), dated 12/11/2000 and 7(e)(1)(v), dated 12/11/2000]*
2. "Administrative Permit Amendment." When required, the Company shall submit to the Department a request for an administrative permit amendment in accordance with Regulation No. 30 Section 7(d) of the State of Delaware "**Regulations Governing the Control of Air Pollution.**" *[Reference Regulation No. 30 Section 7(d), dated 12/11/2000]*
3. "Minor Permit Modification." When required, the Company shall submit to the Department an application for a minor permit modification in accordance with Regulation No. 30 Section 7(e)(1) and 7(e)(2) of the State of Delaware "**Regulations Governing the Control of Air Pollution.**" *[Reference Regulation No. 30 Section 7(e)(1), dated 12/11/2000 and 7(e)(2), dated 12/11/2000]*
 - i. For a minor permit modification, during the period of time between the time the Company makes the change or changes proposed in the minor permit modification application and the time that the Department takes action on the application, the Company shall comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period the Company, at its own risk, need not comply with the existing terms and conditions of this permit that it seeks to modify. *[Reference Regulation No. 30 Section 7(e)(1)(v), dated 12/11/2000 and 7(e)(2)(v), dated 12/11/2000]*
 - ii. If the Company fails to comply with its proposed permit terms and conditions during this time period, the existing terms and conditions of this permit may be enforced against the Company. *[Reference Regulation No. 30 Section 7(e)(1)(v), dated 12/11/2000 and 7(e)(2)(v), dated 12/11/2000]*
4. "Significant Permit Modification." When required, the Company shall submit to the Department an application for a significant permit modification in accordance with Regulation No. 30 Section 7(e)(3) of the State of Delaware "**Regulations Governing the Control of Air Pollution.**" *[Reference Regulation No. 30 Section 7(e)(3), dated 12/11/2000]*
5.
 - i. When the Company is required to meet the requirements under section 112(g) of the *Act* or to obtain a preconstruction permit under the State of Delaware "**Regulations Governing the Control of Air Pollution.**" the Company shall file a complete application to revise this permit within twelve (12) months of commencing operation of the construction or modification. *[Reference Regulation No. 30 Section 5(a)(1)(iv), dated 11/15/1993]*
 - ii. When the Company is required to obtain a preconstruction permit, the Company may submit an application to revise this permit for concurrent processing. The revision request for this permit when submitted for concurrent processing shall be submitted to the Department with the Company's preconstruction review application or at such later time as the *Department* may allow. Where this permit would prohibit such construction or change in operation, the Company shall obtain a *permit revision* before commencing operation. *[Reference Regulation No. 2 Sections 11.2(j), 11.5 and 12.4, dated 6/1/97, and Regulation No. 30 Section 5(a)(1)(iv), dated 11/15/1993]*

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- iii. Where an application is not submitted for concurrent processing, the Company shall obtain an operating permit under the State of Delaware "**Regulations Governing the Control of Air Pollution**" prior to commencing operation of the construction or modification to cover the period between the date operation is commenced and until such time as operation is approved under Regulation No. 30. *[Reference Regulation No. 2 Section 2.1, dated 6/1/97]*
6. "Permit Termination." The Company may at any time apply for termination of this permit in accordance with Regulation No. 30 Section 7(h)(4) or Section 7(h)(5) of the State of Delaware "**Regulations Governing the Control of Air Pollution.**" *[Reference Regulation No. 30 Sections 7(h)(4), dated 12/11/2000 and 7(h)(5), dated 12/11/2000]*
- n. **Permit Transfer.**
 1. A change in ownership or operational control of this facility shall be treated as an administrative permit amendment where the Department has determined that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new owner has been submitted to the Department. *[Reference Regulation No. 30 Section 7(d)(1)(iv), dated 12/11/2000]*
 2. In addition to any written agreement submitted by the Company in accordance with Condition 2(n)(1), the Company shall have on file at the Department a statement meeting the requirements of 7 Del. C., Chapter 79, Section 7902. This permit condition is state enforceable only. *[Reference 7 Del. C., Chapter 79, dated 7/20/92]*
 3. The written agreement required in Condition 2(n)(1) of this permit shall be provided to the Department within a minimum of thirty (30) calendar days prior to the specific date for transfer and shall indicate that the transfer is agreeable to both the current and new owner. *[Reference Regulation No. 2 Section 7.1, dated 6/1/97]*
- o. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege. *[Reference Regulation No. 30 Section 6(a)(7)(iv), dated 12/11/2000]*
- p. **Risk Management Plan Submissions.**
 1. In the event this stationary source, as defined in the State of Delaware "**Accidental Release Prevention (ARP) Regulation**" Section 4, is subject to or becomes subject to Section 5 of the "**ARP Regulation**", dated January 11, 1999, the owner or operator shall submit a risk management plan (RMP) to the Environmental Protection Agency's RMP Reporting Center by the date specified in Section 5.10 and required revisions as specified in Section 5.190. A certification statement shall also be submitted as mandated by Section 5.185. *[Reference Regulation No. 30 Section 6(a)(4), dated 12/11/00, State of Delaware "**Accidental Release Prevention Regulation**", dated 1/11/99 and Delaware; Approval of Accidental Release Prevention Program, Federal Register/Vol. 6, No. 11 pages 30818-22, dated June 8, 2001]*
 2. If this stationary source, as defined in State of Delaware "**ARP Regulation**" Section 4, is not subject to Section 5 but is subject or becomes subject to Section 6 of the "**ARP Regulation**" dated January 11, 1999, the owner or operator shall submit a Delaware RMP to the State of Delaware's Accidental Release Prevention group by the date specified in Section 6.10 and required revisions as specified by Section 6.60(j). *[Reference State of Delaware "**Accidental Release Prevention Regulation**", dated 1/11/99]*
- q. **Protection of Stratospheric Ozone.**

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When applicable, this Facility shall comply with the following requirements: [Reference 40 CFR Part 82 "Protection of Stratospheric Ozone", revised as of 7/1/97]

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - i. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a process that uses a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - ii. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - iii. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - iv. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
1. Any person servicing, maintaining, or repairing appliances, except for motor vehicles, shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B. In addition, Subpart F applies to refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment:
 - i. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to § 82.154 and § 82.156.
 - ii. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - iii. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - iv. Persons performing maintenance, service, repair, or disposal of appliances must certify with the Administrator pursuant to § 82.158 and § 82.162.
 - v. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - vi. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
2. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR Part 82, Subpart F § 82.166.
2. If the permittee manufactures, transforms, destroys, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
3. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the

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applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. These systems are regulated under 40 CFR Part 82, Subpart F.

4. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed as acceptable in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program.
- r. Severability. The provisions of this permit are severable. If any part of this permit is held invalid, the application of such part to other persons or circumstances and the remainder of this permit shall not be affected thereby and shall remain valid and in effect.
[Reference Regulation No. 30 Section 6(a)(6), dated 12/11/2000]

Condition 3. Specific Requirements.

- a. Emission Limitations/Standards and/or Operational Limitations/Standards. The Company shall comply with the emission limitations/standards and operational limitations/standards detailed in Condition 3 - Table 1 of this permit. *[Reference Regulation No. 30 Section 6(a)(1), dated 12/11/2000]*
- b. Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping). The Company shall maintain all of the information required under Conditions 3(b)(1) and 3(b)(2) of this permit for a minimum of five (5) years from such information's date of record and shall make these records available to the Department upon written or verbal request. *[Reference Regulation No. 30 Section 6(a)(3)(ii)(B), dated 12/11/2000]*
 1. i. Specific Requirements. The Company shall comply with the operational limitation(s), monitoring, testing, and record keeping requirement(s) detailed in Condition 3 - Table 1 which are in addition to those in Condition 3(b)(2). *[Reference Regulation No. 30 Section 6(a)(1), dated 12/11/2000, 6(a)(3)(i), dated 12/11/2000, and 6(a)(10), dated 12/11/2000]*
 - ii. General Testing Requirements. Upon written request of the Department, the Company shall, at the Company's expense, sample the emissions of, or fuel used by, an air contaminant emission source, maintain records and submit reports to the Department on the results of such sampling. *[Reference Regulation No. 17, Section 2.2, dated 7/17/84]*
 - iii. The Department must observe all stack emission testing and monitor certification testing including any test audits conducted on the monitors as part of the Quality Assurance Program for the results to be considered for acceptance unless the Department determines in advance, in writing, that the test need not be observed. Further, the Department may in its discretion determine based on its observation of the test that it need not observe the entire test.
 - iv. All monitor performance specification testing and stack emissions testing shall require the submission of a "Source Sampling Guidelines and Preliminary Survey Form" which must be found acceptable to the Department at least thirty (30) days prior to the testing.
 - v. The results of all monitor performance specification testing and stack emission testing shall be submitted to the Department, in triplicate, within ninety (90) days after completion of the testing.

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2. General Record Keeping Requirements. The Company shall record all of the following information.
 - i. If required, for each operating scenario identified in Condition 3 - Table 1 of this permit, a record that indicates the operating scenario under which each particular emission unit is operating. The Company shall, contemporaneously with changing from one operating scenario to another, record in this record the scenario under which it is operating. *[Reference Regulation No. 30 Section 6(a)(10), dated 12/11/2000]*
 - ii. The following information to the extent specified in Condition 3 - Table 1 of this permit. *[Reference Regulation No. 30 Section 6(a)(3)(ii)(A), dated 12/11/2000]*
 - A. The date, place, and time of the sampling or measurements. *[Reference Regulation No. 30 Section 6(a)(3)(ii)(A)(aa), dated 12/11/2000]*
 - B. The date(s) analyses were performed. *[Reference Regulation No. 30 Section 6(a)(3)(ii)(A)(bb), dated 12/11/2000]*
 - C. The company or entity that performed the analyses. *[Reference Regulation No. 30 Section 6(a)(3)(ii)(A)(cc), dated 12/11/2000]*
 - D. The analytical techniques or methods used. *[Reference Regulation No. 30 Section 6(a)(3)(ii)(A)(dd), dated 12/11/2000]*
 - E. The results of such analyses. *[Reference Regulation No. 30 Section 6(a)(3)(ii)(A)(ee), dated 12/11/2000]*
 - F. The operating conditions as existing at the time of sampling or measurement. *[Reference Regulation No. 30 Section 6(a)(3)(ii)(A)(ff), dated 12/11/2000]*
 - iii. If the Company is claiming the affirmative defense of emergency or malfunction as provided in Condition 2(b)(5); properly signed, contemporaneous operating log(s), or other relevant evidence which indicates that: *[Reference Regulation No. 30 Section 6(g)(3), dated 12/11/2000]*
 - A. An emergency or malfunction occurred and the cause(s) of the emergency or malfunction. *[Reference Regulation No. 30 Section 6(g)(3)(i), dated 12/11/2000]*
 - B. The facility was at the time of the emergency or malfunction being operated in a prudent and professional manner and in compliance with generally accepted industry operations and maintenance procedures. *[Reference Regulation No. 30 Section 6(g)(3)(ii), dated 12/11/2000]*
 - C. During the period of the emergency or malfunction the Company took all reasonable steps to minimize levels of emissions that exceeded the emission standard(s), or other requirement(s) of this permit. *[Reference Regulation No. 30 Section 6(g)(3)(iii), dated 12/11/2000]*
 - iv. A copy of the written notice required by Condition 3(c)(2)(iii) for each change made under Condition 4(c) [Operational Flexibility] of this permit shall be maintained with a copy of this permit. *[Reference Regulation No. 30 Section 6(h)(1), dated 12/11/2000]*

c. Reporting and Compliance Certification Requirements.

1. Specific Reporting/Certification Requirements. The Company shall comply with the Reporting/Certification Requirement(s) detailed in Condition 3 - Table 1 of this permit, which are in addition to those of Conditions 3(c)(2) and 3(c)(3). Each report that contains any deviation(s) from the terms of Condition 3 - Table 1 shall identify the probable cause of the deviation(s) and any corrective action(s) or preventative measure(s) taken. *[Reference Regulation*

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No. 30 Sections 6(a)(3)(iii), dated 12/11/2000, 6(a)(3)(iii)(C)(cc), dated 12/11/2000, and 6(a)(3)(iii)(C)(dd), dated 12/11/2000]

2. General Reporting Requirements.

- i. The Company shall submit to the Department a report of any required monitoring not later than the first day of August (covering the period from January 1 through June 30) and the first day of February (covering the period July 1 through December 31) of each calendar year. Each report shall identify any deviation(s) from permit requirements since the previous report, any deviation(s) from the monitoring, record keeping and reporting requirements under this permit, and the probable cause of the deviation(s) and any corrective actions or preventative measures taken. If no deviation(s) has occurred such shall be stated in the report. *[Reference Regulation No. 30 Section 6(a)(3)(iii)(A), dated 12/11/2000 and (B), dated 12/11/2000, and Section 6(a)(3)(iii)(C)(dd), dated 12/11/2000]*
- ii. In addition to the semiannual monitoring reports required under Condition 3(c)(2)(I), the Company shall submit to the Department supplemental written report(s)/notice(s) identifying all deviations from permit conditions, probable cause of the deviations, and any corrective actions or preventative measures as follows: *[Reference Regulation No. 30, Sections 6(a)(3)(iii)(C)(cc), dated 12/11/2000 and 6(a)(3)(iii)(C)(dd), dated 12/11/2000]*
 - A. If the Company is claiming the affirmative defense of emergency or malfunction as provided in Condition 2(b)(5) of this permit, a notice of any deviation resulting from emergency or malfunction conditions shall be reported to the Department within two (2) working days of the time when the technology-based emission limitations were exceeded. Such notice shall contain a description of the emergency or malfunction, any steps taken to mitigate emissions, and any corrective actions taken. *[Reference Regulation No. 30 Sections 6(a)(3)(iii)(C)(aa), dated 12/11/2000 and 6(g)(3)(iv), dated 12/11/2000]*
 - B. Emissions in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department:
 1. Immediately upon discovery and after activating the appropriate site emergency plan to the Department's 24-hour complaint line or by facsimile (fax) if the emission poses an imminent and substantial danger to public health, safety, or the environment. *[Reference Regulation No. 30 Section 6(a)(3)(iii)(C)(bb), dated 12/11/2000]*
 2. Immediately upon discovery to the Department's 24-hour complaint line (State Enforceable Only). *[Reference Regulation No. 30 Section 6(a)(3)(iii)(C)(bb), dated 12/11/2000]*
 3. In addition to complying with Condition 3.c.2.ii.B. 1 and 2 of this permit, the Company shall satisfy any reporting required by the "Reporting of a Discharge of a Pollutant or an Air Contaminant" regulation, within 30 calendar days of becoming aware of an occurrence subject to reporting pursuant to these conditions. All reports submitted to the Department shall be submitted in writing and shall include the following information: *[Reference Regulation No. 30 Sections 6(a)(3)(iii)(C)(cc), dated 12/11/2000 and 6(a)(3)(iii)(C)(dd), dated 12/11/2000]*
 - i. The name and location of the facility;
 - ii. The subject sources that caused the emissions;
 - iii. The time and date of the first observation of the excess emissions;
 - iv. The cause and expected duration of the excess emissions;
 - v. For sources subject to numerical emission limitations, the estimated rate of emissions (expressed in the units of the applicable emission or operational

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limitation) and the operating data and calculations used in determining the magnitude of the excess emissions; and

- vi. The proposed corrective actions and schedule to correct the conditions causing the excess emissions.

Emissions on the same day from the same emission unit may be combined into one report. Emissions from the same cause that occur contemporaneously may also be combined into one report. The Company shall submit an electronic copy of all required reports to the Department's compliance engineer assigned to the Refinery.

- C. Discharges to the atmosphere in excess of any quantity specified in the State of Delaware "**Reporting of a Discharge of a Pollutant or an Air Contaminant**" Regulation shall be reported, immediately upon discovery and after activating the appropriate site emergency plan, either in person or to the Department's 24-hour complaint line (1-800-662-8802). Discharges in compliance with this permit and excess emissions previously reported under Condition 3(c)(2)(ii)(B) of this permit are exempt from this reporting requirement. *[Reference Regulation No. 30 Section 6(a)(3)(iii)(C)(ee), dated 12/11/2000 and 7 Del. C., Chapter 60, Section 6028]*
- iii. Prior to making a change as provided in Condition 4 [Operational Flexibility] of this permit the Company shall give written notice to the Department and the EPA at least seven (7) calendar days before the change is to be made. *[Reference Regulation No. 30 Section 6(h)(1), dated 12/11/2000]*
 - A. The seven (7) day period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. *[Reference Regulation No. 30 Section 6(h)(1), dated 12/11/2000]*
 - B. If less than seven (7) calendar days notice is provided because of a need to respond more quickly to such unanticipated conditions, the Company shall provide notice to the Department and to EPA as soon as possible after learning of the need to make the change, together with the reason(s) why advance notice could not be given. *[Reference Regulation No. 30 Section 6(h)(1), dated 12/11/2000]*
 - C. The written notice shall include all of the following information: *[Reference Regulation No. 30 Section 6(h)(1), dated 12/11/2000]*
 - 1. The identification of the affected emission unit(s) and a description of the change to be made.
 - 2. The date on which the change will occur.
 - 3. Any changes in emissions.
 - 4. Any permit terms and conditions that are affected, including any new applicable requirements.
- iv. The Company shall submit to the Department an annual emissions statement in accordance with Regulation No. 17 Section 7 not later than April 30 of each year or other date as established by the Department unless an extension by the Department is granted. Such emissions statement shall cover the preceding calendar year. *[Regulation No. 17 Section 7, dated 1/11/93]*
- v. If required, the Company shall submit to the Department a progress report for applicable requirement(s) identified in Condition 5 - Table 1 of this permit. Such

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reports shall be submitted not later than the first day of August (covering the period from January 1 through June 30) and the first day of February (covering the period July 1 through December 31) of each calendar year. Each progress report shall include the following: *[Reference Regulation No. 30 Sections 5(d)(8), dated 12/11/2000 and 6(c)(4), dated 12/11/2000]*

- A. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved. *[Reference Regulation No. 30 Section 6(c)(4)(I), dated 12/11/2000]*
- B. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted. *[Reference Regulation No. 30 Section 6(c)(4)(ii), dated 12/11/2000]*
- vi. Nothing herein shall relieve the Company from any reporting requirements under federal, state or local laws. *[Reference Regulation No. 30 Section 6(a)(3)(iii)(C)(ee), dated 12/11/2000]*

3. General Compliance Certification Requirements.

- i. Compliance with terms and conditions detailed in Condition 3 - Table 1 of this permit shall be certified to the Department not later than the first day of February of each year unless the terms or conditions in Condition 3 - Table 1 require compliance certifications to be submitted more frequently. Such certification shall cover the previous calendar year and shall be submitted on Form AQM-1001BB. The Compliance Certification shall include the following information: *[Reference Regulation No. 30 Section 6(c)(5)(I), dated 12/11/2000]*
 - A. The identification of each term or condition of the permit that is the basis of the certification. *[Reference Regulation No. 30 Section 6(c)(5)(iii)(A), dated 12/11/2000]*
 - B. The Company's current compliance status, as shown by monitoring data and other information reasonably available to the Company. *[Reference Regulation No. 30 Section 6(c)(5)(iii)(B), dated 12/11/2000]*
 - C. Such certification shall indicate whether compliance was continuous or intermittent during the covered period. *[Reference Regulation No. 30 Section 6(c)(5)(iii)(C), dated 12/11/2000]*
 - D. The method(s) used for determining the compliance status of the Company, currently and over the reporting period as required by the monitoring, record keeping, and reporting required under Condition 3. *[Reference Regulation No. 30 Section 6(c)(5)(iii)(D), dated 12/11/2000]*
 - E. Such other facts as the Department may require to determine the compliance status of the source. *[Reference Regulation No. 30 Section 6(c)(5)(iii)(E), dated 12/11/2000]*
- ii. Each compliance certification shall be submitted to the Department and EPA and shall be certified in accordance with Condition 2(a) of this permit. *[Reference Regulation No. 30 Section 6(c)(5)(iv), dated 12/11/2000]*
- iii. Any additional information possessed by the Company that demonstrates noncompliance with any applicable requirement must also be used as the basis for compliance certifications. *[Reference 62 FR 8314, dated 2/24/97]*

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

a. Emission Unit 80

Boiler 80-1 (618 mmBtu/hr)

Boiler 80-2 (716 mmBtu/hr)

Boiler 80-3 (618 mmBtu/hr)

Boiler 80-4 (737 mmBtu/hr)

(Emission Point 80-1)

1. [RESERVED]

i. [RESERVED]

2. Conditions Applicable to Multiple Pollutants:

i. Operational Limitations: [Reference APC-90/0289 (A6), APC-90/0290 (A5) and APC-90/0289 (A6), APC-90/0290 (A5) and APC-90/0289 (A6), APC-90/0290 (A5) and APC-90/0289 (A6)]

A. Only desulfurized refinery fuel gas (RFG) can be fired in Boilers 80-1, 80-2 and 80-3. Only desulfurized RFG, natural gas or syngas can be fired in Boiler 80-4.

B. [RESERVED]

C. [RESERVED]

D. [RESERVED]

E. Except during periods of startup and shutdown, burner steam injection and flue gas recirculation systems in Boiler 2 shall be working in a manner consistent with maintaining 0.04 lb/MMBtu NO_x on a rolling average. F. [RESERVED]

G. [RESERVED]

H. The Company shall not cause or allow the combustion of any fuel in Boiler 80-4 to

ii. Compliance Method: [Reference APC-90/0289 (A6), APC-90/0290 (A5) and APC-90/0289 (A6), APC-90/0290 (A5) and APC-90/0289 (A6)]

A. Compliance with Operational Limitations shall be based on Monitoring requirements.

B. [RESERVED]

C. [RESERVED]

D. Compliance with Operational Limitations shall be based on maintaining manufacturer's recommended steam injection and flue gas recirculation rates. They may be adjusted based on the experience of the Company with these controls, consistent with minimizing emissions and engineering practices.

E. [RESERVED]

F. Compliance with Operational Limitations shall be based on Monitoring requirements.

v. Reporting: [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5), APC-90/0291 and APC-97/0288 (A5), APC-97/0289 (A6), APC-97/0290 (A5) and APC-97/0291 (A6)]

A. [RESERVED]

B. All stack emission testing and certification testing shall be performed in accordance with Section 3(b)(1)(iii).

C. [RESERVED]

D. [RESERVED]

E. The Company shall submit the following semi-annual excess emissions report to the Department of Environmental Protection for the preceding semi-annual period. The reports shall be submitted to the Department on or before January 31 and July 31 of each calendar year, with a summary of all excess emissions for the preceding semi-annual period. The summary shall include:

1. The name and location of the facility

2. The subject sources that caused the excess emissions;

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
that exceeds the boiler design capacity of 737 MMBtu/hr averaged over a rolling period. [Reference Regulation No. 2 Section 1.06/01/1997]	G. Comply with "Combined Limits" Condition 3, Table 1.f	3. The time and date of the first observation of the excess emissions;
I. Comply with "Combined Limits" Condition 3, Table 1.f	iii. Monitoring/Testing: [Reference APC-90/0289 (A6), APC-90/0290 (A5) and APC-90/0290 (A5) (RACT)] A. [RESERVED] B. [RESERVED] C. A continuous flow monitoring system installed to measure the amount of fuel combusted in Boiler 80-3. [Reference APC-90/0290 (A5) (RACT)] D. [RESERVED] E. [RESERVED] F. [RESERVED] G. The Company shall continuously monitor and record the fuel flow rates for each boiler. [Reference Regulation No. 30 Section 6(a)(3)(i) 12/11/2000] H. Comply with "Combined Limits" Condition 3, Table 1.f	4. The cause and expected duration of the excess emissions; 5. The estimated amount of excess emissions (expressed in the units of applicable emission limitation); and 6. The proposed corrective action schedule to correct the conditions causing the excess emissions. 7. [RESERVED] 8. [RESERVED] 9. [RESERVED] 10. [RESERVED] 11. [RESERVED] 12. [RESERVED] 13. [RESERVED]
	iv. Recordkeeping: [Reference APC-90/0289 (A6), APC-90/0290 (A5) and APC-90/0290 (A5) (RACT)] A. The Company shall maintain all records necessary for determining compliance with this permit in accordance with Condition 3, Table 1.f	F. The Company shall submit quarterly CEMS and COMS reports by January 31, April 30, and October 31 of each calendar year. CEMS and COMS reports shall include data capture for the period and detail of control periods. G. The Company shall notify the Department of Environment prior to making any material change which cause these units to fall out of compliance.

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Emission	Compliance Determination	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

B. Comply with "Combined Limits" Condition 3, Table 1.f

authority of Title IV of the Clean Air Act.
H. **[RESERVED]**
I. Comply with "Combined Limits" Condition 3, Table 1.f

vi. Certification Requirement [Reference Heat Boilers Consent Decree, i.e. First Amendment Consent Decree, Civil Action No. H- between United States of America, Plaintiff States of Delaware, Louisiana, and the No Air Pollution Authority of the State of Was Plaintiff-Intervenors, versus Motiva Enterprises LLC and Deer Park Limited Partnership, Defendants, filed in the States District Court for the Southern District of Texas on May 29, 2002]

In the annual compliance certification required under Condition 3(c)(3) of this permit, and pursuant to the referenced Consent Decree, the Company shall certify that liquid fuel was not burned in any combustion unit at the facility during the reporting period.

vi. Reporting:
Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.v (EU-

vii. Certification Requirement:

3. Particulate Emissions:
i. Emission Standards: [Reference APC-90/0 APC-90/0289 (A6), APC-90/0290 (A5) and APC-90/02
A. **[RESERVED]**
B. PM10 emissions including H₂SO₄ stream

iii. Compliance Method: [Reference APC-90/0 APC-90/0289 (A6), APC-90/0290 (A5) and APC-90/0
A. Compliance with PM10 Emission Standards shall be demonstrated using stack test emissions factors and fuel flow rates

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

- | | | |
|---|--|--|
| <p>exceed the following limits:</p> <ol style="list-style-type: none"> 1. 0.0104 lb/mmBtu heat input when natural gas or refinery fuel gas in 80-1, 80-2 and 80-3. 2. 0.026 lb/mmBtu heat input when syngas in Boiler 80-3. 3. 24 TPY from Boiler 80-1. 4. 27.8 TPY from Boiler 80-2. 5. 92 TPY from Boiler 80-3. <p>C. [RESERVED]</p> <p>D. TSP emissions shall not exceed the following limits:</p> <ol style="list-style-type: none"> 1. 0.0062 lb/mmBtu heat input when natural gas or refinery fuel gas in 80-1, 80-2 and 80-3. 2. 0.0074 lb/mmBtu heat input when syngas in Boiler 80-3. 3. 13.5 TPY from Boiler 80-1. 4. 15.7 TPY from Boiler 80-2. 5. 13.5 TPY from Boiler 80-3. <p>E. [RESERVED]</p> <p>F. [RESERVED]</p> <p>ii. Operational Limitation:
Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2 (EU-8</p> | <p>boilers.</p> <p>B. Compliance with TSP Emission Standards be demonstrated using stack test emissions factors and fuel flow rates boilers.</p> <p>C. [RESERVED]</p> <p>iv. Monitoring/Testing:</p> <p>A. The Company shall conduct the following stack tests annually, in accordance with Condition 3(b):</p> <ol style="list-style-type: none"> 1. EPA Reference Method 5 for TSP. 2. EPA Reference Method 5B/202 for SO₂ including H₂SO₄. 3. The Company may petition the Department to decrease the frequency of TSP or PM10 performance tests based on the results of any performance test. <p>B. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.iii (EU-80).</p> <p>v. Recordkeeping:
Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.iv (EU-</p> | <p>None in addition to those listed in Condition 3 of this permit.</p> |
|---|--|--|

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
4. Sulfur Dioxide (SO ₂):	iii. Compliance Method: [Reference APC-90/0 APC-90/0289 (A6), APC-90/0290 (A5)]	vi. Reporting:
i. Emission Standards: [Reference APC-90/0 APC-90/0289 (A6), APC-90/0290 (A5)]	A. Compliance with the SO ₂ Emission St for Boiler 80-3 shall be based on 1 Continuous Emissions Monitoring (CEMS) for Boiler 80-3.	Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.v (EU-
A. [RESERVED]	B. Compliance with the SO ₂ Emission St for Boilers 80-1 and 80-2 sh demonstrated by complying with 1 gas monitored H ₂ S content limitat measured by the H ₂ S Continuous Mo System (CMS) for Boilers 80-1 and 80-2	vii. Certification Requirement:
B. The Company shall not cause or al emission of SO ₂ in excess of the f limits:		None in addition to those listed in Conditio of this permit.
1. Boiler 80-1: 61.4 TPY		
2. Boiler 80-2: 71.2 TPY		
3. Boiler 80-3: 778.9 TPY		
ii. Operational Limitations:	iv. Monitoring/Testing: [Reference APC-90/0 APC-90/0289 (A6), APC-90/0290 (A5)]	
Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2 (EU-	A. The Company shall operate and main: CEMS for 80-3.	
	B. The SO ₂ CEMS shall conform to Perf Specification 2 of 40 CFR 60, Appen: The Quality Assurance/Quality (QA/QC) procedures for SO ₂ CEMS boiler shall be established in accordar 40 CFR 60, Appendix "F."	
	B. [RESERVED]	
	C. [RESERVED]	
	D. [RESERVED]	

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
	v. Recordkeeping: [
	APC-90/0289-CONSTRUCTION (Amendment 5) (RAC	
	No. 2, dated 10/25/2002]	
	The Company shall maintain SO ₂ CEM	
	calibration and audit results in accordan	
	Condition 3(b).	
5. Nitrogen Oxides (NOx):	iii. Compliance Method: [Reference APC-90/0	vi. Reporting:
i. Emission Standards: [Reference APC-90/0	APC-90/0289 (A6), APC-90/0290 (A5)]	NOx authorized account representative of
APC-90/0289 (A6), APC-90/0290 (A5)]	A. Compliance with the NOx Emission St	Budget source and each NOx Budget uni
A. [RESERVED]	shall be based on Continuous E	source shall submit the reports and cor
B. The Company shall not cause or al	Monitoring System (CEMS) for NOx a	certifications required under the NOx
emission of NOx in excess of the f	for Boilers 80-1, 80-2 and 80-3.	Trading Program, including those under Re
baseline emission levels for the boilers:	B. Compliance with a less stringent	No. 39 Sections 7, 8, and 11.
1. Boiler 80-1: 541.4 TPY	emission limit shall be based on con	
2. Boiler 80-2: 125.4 TPY	with a more stringent limit.	
3. Boiler 80-3: 541.4 TPY		vii. Certification Requirement: [
C. The NOx emissions shall not exceed the f	iv. Monitoring/Testing: [Permit:AQM-003/00016-I dated 05/01/20
levels based on a 24-hour rolling	APC-90/0289-CONSTRUCTION (Amendment 5) (RAC	Regulation No. 39 Section 6(d) dated 12/11/2000
basis: 1. 0.20 lb/mmBtu for	No. 2, dated 10/25/2002]	In addition to those listed in Condition 3
80-1, 80-3 and 80-4.	A. The Company shall operate and maint	this permit, each document submitted
2. 0.04 lb/mmBtu for Boiler 80-2.	and CO ₂ CEMS for the boilers.	Department and the Administrator pursuar
D. [RESERVED]	B. The NOx and CO ₂ CEMS for boile	NOx Budget requirements shall be sign
E. The Company shall not cause or al	conform to the applicable Perf	certified by the Authorized Account Repres
emission of NOx in excess of 0.25 lb	Specifications in 40 CFR 75, Apper	and shall contain the following language:
from Boilers 80-1, 80-2, 80-3 and 80	The QA/QC procedures for NOx a	
24-hour rolling average basis.	CEMS shall be established in accordar	"I am authorized to make this submission o
		of the owners and operators of the NOx

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

Regulation No. 12 Section 3.2(a) dated 11/24/1990 (as amended by RACT))

- F. During the ozone season (May 1 to September 30 of 2008), the Company shall hold in its compliance account an amount equal to the NO_x allowance transfer deadline of each control point. The quantity of NO_x allowances available for deduction that is equal to or greater than the total NO_x emissions from each boiler during the control period.

[Reference: Permit: AQM-003/00016-1 dated 11/24/1990 and Regulation No. 39 Section 2(a) dated 12/1/1990 (Budget Trading Program)]

- ii. Operational Limitations:
Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2 (EU-

40 CFR 75, Appendix "B."

- v. Recordkeeping: *[Reference: APC-90/0289 (A6), APC-90/0290 (A5)]*

A. The Company shall maintain NO_x CEM calibration and audit results in accordance with Condition 3(b).

B. Unless otherwise provided, the own operators of the NO_x Budget source a NO_x Budget unit at the source shall maintain documents in accordance with Condition 3(b). This period may be extended for a period of not more than 5 years, in whole or in part, by the Department or the Administrator.

1. The account certificate of representation shall be under Regulation No. 39 Section 6.2. The documents that demonstrate the accuracy of the statements in the account certificate shall be retained on site at the source beyond a 5 year period until such documents are superseded because of the submission of a new account certificate of representation under Regulation No. 39 Section 6.2. The NO_x authorized

sources or NO_x Budget units for which the submission is made. I certify under penalty of perjury that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with responsibility for obtaining the information, the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements, information or omitting required state information, including the possibility of imprisonment."

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Emission	Compliance Determination	
	Methodology	Reporting/Compliance
	(Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Certification
Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)		

- representative.
- 2 All emissions monitoring information in accordance with Regulation Section 8.
- 3 Copies of all reports, certifications, and other submissions and all records made or required under the NOx Budget Trading Program.
- 4 Copies of all documents used to complete a NOx Budget permit application or other submission under the NOx Budget Trading Program or to demonstrate compliance with the requirements of the NOx Budget Trading Program.
- 5 Records demonstrating that an entity exempted under Regulation Section 3(b) of this regulation is not a new source. The owner(s) or operator(s) of the facility bears the burden of proof that the facility is not a new source.

[Reference: Permit: AQM-003/00016-I dated 01/12/11/00 and Regulation No. 39 Sections 7, 8 and 12/11/00]

6. Carbon Monoxide (CO):

- i. Emission Standards: [Reference APC-90/0289 (A6), APC-90/0290 (A5)]

- iii. Compliance Method: [Reference APC-90/0289 (A6), APC-90/0290 (A5)]
Compliance with the CO Emission Standards

- vi. Reporting: Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.v (EU-80).

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

- A. [RESERVED]
- B. The Company shall not cause or allow emissions of CO in excess of 0.034 lb from Boilers 80-1, 80-2 and 80-3.
- C. The Company shall not cause or allow emission of CO in excess of the following:
 - 1. 92 TPY for Boiler 80-1.
 - 2. 106.6 TPY for Boiler 80-2.
 - 3. 92 TPY for Boiler 80-3.
- ii. Operational Limitations: Comply with "Co Applicable to Multiple Pollutants" in Condition Table 1.a.2 (EU-80).

- be demonstrated by the following methods:
 - A. [RESERVED]
 - B. Stack test based emissions factor and flow rates for Boilers 80-1 and 80-3.
 - C. CEMS for Boiler 80-2.
- iv. Monitoring/Testing: [Reference APC-90/0 APC-90/0289 (A6), APC-90/0290 (A5)]
 - A. The Company shall conduct an annual test for CO using EPA Reference Method and in accordance with Condition 3(b) the Department approves less frequent testing.
 - B. The Company shall operate and maintain CEMS for Boiler 80-2.
 - C. The CO CEMS shall conform to the applicable Performance Specifications in 40 CFR Appendix "B." The QA/QC procedure: CO CEMS shall be established in accordance with the procedures in 40 CFR Part Appendix "F."
- v. Recordkeeping:
 - A. For Boiler 80-2, the Company shall record CO CEMS data, calibration and audit records in accordance with Condition 3(b).
 - B. For Boilers 80-1, 80-3 and 80-4, the C

- vii. Certification Requirement:
None in addition to those listed in Condition 3 this permit.

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Reporting/Compliance Certification
shall comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.iv (EU-80).		
7. Volatile Organic Compounds (VOC): i. Emission Standards: [Reference APC-90/02 APC-90/0289 (A6), APC-90/0290 (A5)] A. [RESERVED] B. VOC emissions shall not exceed the following limits: 2. [RESERVED] C. The Company shall not cause or allow the emission of VOC in excess of the following limits: 1. 3.8 TPY from Boiler 80-1. 2. 4.4 TPY from Boiler 80-2. 3. 3.8 TPY from Boiler 80-3. ii. Operational Limitations: Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2 (EU-80).	iii. Compliance Method: [Reference APC-90/02 APC-90/0289 (A6), APC-90/0290 (A5)] Compliance with the VOC Emission Standards demonstrated using stack test based emission: and fuel flow rates for the boilers. iv. Monitoring/Testing: A. The Company shall conduct annually Reference Method 25 A stack test for VOC in accordance with Condition 3(b). The Company may petition the Department to decrease the frequency of VOC performance tests based on the results of any performance testing. B. Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.iii (EU-80). v. Recordkeeping: Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.iv (EU-80).	vi. Reporting: Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.v (EU-80). vii. Certification: None in addition to those listed in Condition 3 of this permit.
8. Sulfuric Acid Mist (H ₂ SO ₄): i. Emission Standards: [Reference APC-90/02 APC-90/0289 (A6), APC-90/0290 (A5)]	iii. Compliance Method: [Reference APC-90/02 APC-90/0289 (A6), APC-90/0290 (A5)]	vi. Reporting: Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.v (EU-80).

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
<i>APC-90/0289 (A6), APC-90/0290 (A5)]</i> A. [RESERVED] B. The Company shall not cause or allow the emission of H ₂ SO ₄ in excess of the following limits: 1. 9.4 TPY for Boiler 80-1. 2. 10.9 TPY for Boiler 80-2. 3. 71.6 TPY for Boiler 80-3. C. [RESERVED]ii. Operational Limitations: Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2 (EU-80).	A. Compliance shall be demonstrated using standard based emissions factors and fuel flow rates for boilers. B. [RESERVED] C. Compliance for the boiler 80-3 shall be demonstrated by applying the stack test SO ₂ to H ₂ SO ₄ conversion factor to CEMS-monitored SO ₂ emissions. D. Compliance for Boilers 80-1 and 80-2 shall be demonstrated by applying the fuel gas moisture H ₂ S content to the H ₂ SO ₄ conversion factor	Pollutants" in Condition 3, Table 1.a.2.v (EU-80).
	iv. Monitoring/Testing: A. The Company shall conduct annually Reference Method 8 stack test for H ₂ SO ₄ in accordance with Condition 3(b). The Company may petition the Department to decrease the frequency of H ₂ SO ₄ performance tests based on the results of any performance testing. B. Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.iii (EU-80) v. Recordkeeping: Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.iv (EU-80)	vii. Certification: None in addition to those listed in Condition 3 of this permit.

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
9. [RESERVED]		
10. Visible Emissions:		
i. Emission Standard: [Reference APC-90/02 APC-90/0289 (A6), APC-90/0290 (A5)] The Company shall not cause or allow the emission of visible air contaminants from this unit in excess of twenty percent (20%) opacity for an aggregate of more than three (3) minutes in any one (1) hour period or more than fifteen (15) minutes in any twenty-four hour period.	iii. Compliance Method: [Reference APC-90/02 APC-90/0289 (A6), APC-90/0290 (A5)] Compliance with the visible Emission Standard demonstrated by a Continuous Opacity Monitoring System (COMS) for Boilers 80-1, 80-2, 80-3 and the common stack.	vi. Reporting: A. Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2.v (EU-
ii. Operational Limitations: Comply with "Conditions Applicable to Pollutants" in Condition 3, Table 1.a.2 (EU-80).	iv. Monitoring/Testing: [Reference APC-90/02 APC-90/0289 (A6), APC-90/0290 (A5)] A. The Company shall operate and maintain the COMS for Boilers 80-1, 80-2, 80-3 and the common stack. B. The COMS shall be maintained in accordance with Performance Specification 1 in 40 Appendix "B."	vii. Certification: None in addition to those listed in Condition 3 of this permit.
11. Acid Rain Requirements for Boiler 80-4: [Reference Phase II Permit Application approved pursuant to U.S. EPA Acid Rain Program] The following are the requirements the Company shall follow for purposes of the Acid Rain Program:		
	v. Recordkeeping: [Reference APC-90/0289-CONS (Amendment 5) (RACT) - Boiler No. 2, dated 10/25/2002] The Company shall maintain COMS data, calibration and audit results in accordance with Condition 3.	viii. Reporting: The Company's designated representative shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.
	v. Compliance Method: Compliance with the SO ₂ requirements shall be based on Monitoring, Recordkeeping and Reporting Requirements.	

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
<p>: [RESERVED]</p> <p>A. [RESERVED]</p> <p>B. [RESERVED]</p> <p>ii. SO₂ Requirements:</p> <p>A. The Company shall:</p> <p>1. Hold allowances for 4, as of the allowance transfer deadline, unit's compliance subaccount (after deduction under 40 CFR 73.34(c)) not less than the annual emissions of SO₂ for the previous calendar year from the unit, and the requirement to hold each ton of allowance constitutes a separate requirement.</p> <p>2. [RESERVED]</p> <p>B. [RESERVED]</p> <p>C. [RESERVED]</p> <p>D. The Company's allowances shall be held in, deducted from, or transferred among Allow Tracking System accounts in accordance with the Acid Rain Program.</p> <p>E. The Company shall not deduct allowances in order to comply with the requirements under paragraph (A) above prior to the calendar year for which the allowance was allocated.</p> <p>F. [RESERVED]</p> <p>G. [RESERVED]</p> <p>iii. [RESERVED]</p>	<p>vi. Monitoring Requirements:</p> <p>A. The Company and, to the extent applicable, a designated representative shall comply with monitoring requirements as provided in 40 CFR part 75.</p> <p>B. The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emission reduction requirements for SO₂ under the Acid Rain Program.</p> <p>C. [RESERVED]</p> <p>D. The Company shall continuously monitor and record the concentration (dry basis) of TRS in the RFG before it is combusted in Boiler 4. The TRS monitor shall be located downstream of all steps which impact the composition of RFG to its being combusted in Boiler 4. The TRS monitor shall conform to the QA/QC requirements recommended by the manufacturer's specifications and listed in the QA/QC Plan for the TRS monitor. The TRS monitor shall conform to Performance Specification 5 of 40 CFR Part 75, Appendix "B." Relative accuracy evaluation shall be conducted using Method 15 of 40 CFR Part 75, Appendix "A."</p> <p>E. [RESERVED]</p>	<p>ix. [RESERVED]</p> <p>x. [RESERVED]</p> <p>xi. Certification Requirement:</p> <p>In addition to those listed in Condition 3(c)(3) of this permit, each document required to be submitted to the Department and the Administrator pursuant to the provisions of this permit shall be signed and certified by the Designated Representative and contain the following language:</p> <p><i>"I am authorized to make this submission on behalf of the owners and operators of the affected source, and I certify that the information submitted in this document and all attachments is true, accurate, and complete. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge are true, accurate, and complete. I am aware that there are significant penalties for submitting false statements."</i></p>

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

iv. Excess Emissions Requirements:

- A. The Company's designated representative shall submit a proposed offset plan, as required by 40 CFR part 77 if Boiler 4 has excess emissions in any calendar year.
- B. If Boiler 4 has excess emissions in any calendar year, the Company shall:
 1. Pay without demand the penalty required by 40 CFR part 77; and
 2. Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

vii. Recordkeeping:

- Unless otherwise provided, the Company shall maintain at the source each of the following documents for a period of 5 years from the date the document was created. This period may be extended for cause at the discretion of the Department or the Administrator.
- A. The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.
 - B. All emissions monitoring information, in accordance with 40 CFR part 75.
 - C. Copies of all reports, compliance certificates, and other submissions and all records made or required under the Acid Rain Program.
 - D. Copies of all documents used to complete an Acid Rain permit application and any other submissions under the Acid Rain Program or to demonstrate

and information or omitting required statement information, including the possibility of fine or imprisonment."

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

compliance with the requirements of the Air
Program.

b. Emission Unit 82

Texaco Gasifiers 82-1a & 82-2a

Gas Coolers 82-1b & 82-2b

(Fugitive Emissions, No Emission Points)

1. Conditions Applicable to Multiple Pollutants:

i. Operational Limitations: *[Reference APC-97/0504]*

A. Fugitive emissions of Volatile Organic Compounds (VOC) from the gasification process shall be subject to the Leak Detection and Repair requirements of 40 CFR 60, subpart VV and to the requirements of Regulation 24, Section 29 of Delaware's Regulations Governing the Control of Air Pollution.

B. **[RESERVED]**

ii. Compliance Method: *[Reference APC-97/0504]*

A. Compliance with Operational Limitation (A) shall be based on the requirements of the Department approved facility-wide Leak Detection and (LDAR) Program that addresses the fugitive emissions of Volatile Organic Compounds (VOC).

B. **[RESERVED]**

iii. Monitoring/Testing: *[Reference APC-97/0504-OPERATION dated 08/06/2003]*

None in addition to those listed in Condition 3(c) of this permit.

iv. Recordkeeping: *[Reference APC-97/0504-OPERATION dated 08/06/2003]*

A. The Company shall maintain all records required pursuant to 40 CFR 60, Subpart VV and Regulation 24, Section 29(j). *[Reference Regulation 24, Section 29(j), dated 11/29/1994]*

B. The Company shall maintain all records required pursuant to 40 CFR 60, Subpart VV and Regulation 24, Section 29(k). *[Reference Regulation 24, Section 29(k), dated 11/29/1994]*

v. Reporting:

The Company shall follow the reporting requirements of 40 CFR 60, Subpart VV and Regulation 24, Section 29(k). *[Reference Regulation 24, Section 29(k), dated 11/29/1994]*.

vi. Certification Requirement:

None in addition to those listed in Condition 3(c) of this permit.

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

necessary for determining compliance with this permit in accordance with Section 3.
C. [RESERVED]

2. [RESERVED]

c. Emission Unit 82 (cont'd) and 50:

Amine Acid Gas Removal System 82-3, Syngas
Flare 82-4 (Emission Points 82-1 and 82-2)
Three-Cell Linear Mechanical Draft Cooling Tower
(Emission Point 50)

1. Conditions Applicable to Multiple Pollutants:

i. Operational Limitations: [Reference
APC-97/0504-OPERATION, dated 08/06/2003]

A. Syngas may be diverted to the flare during periods when process upsets, malfunctions, safety trips, start-ups or shut-downs occur in the combustion turbines, gasification section, gas cooling section, the amine acid gas removal system, the slurry preparation section, the refinery sulfur recovery unit or in the air separation plant. B. The Company shall take all necessary steps to ensure that the duration of each flaring event is minimized.

The total duration of clean syngas flaring during periods of process upset and malfunction shall not exceed 800 hours in any rolling twelve (12) month period.

ii. Compliance Method: [Reference APC-97/0504-OPERATION, dated 08/06/2003]

Compliance shall be based on Recordkeeping and Reporting requirements and on information available to the Department which may include, but is not limited to, monitoring results, opacity and process operating data.

iii. Monitoring/Testing:
None in addition to those listed in Condition 3 of this permit.

iv. Recordkeeping: [Reference APC-97/0504-OPERATION, dated 08/06/2003]

A. [RESERVED]

v. Reporting: [Reference APC-97/0504-OPERATION, dated 08/06/2003]

The Company shall submit semi-annual reports. Reports for the preceding semi-annual period shall be submitted to the Department by January 31 and of each calendar year for the semi-annual period. The summary shall include:

A. All periods of flaring events with a description of each event including steps taken to minimize flaring duration and steps taken to prevent occurrences in the future.

B. During periods of flaring, the calculated raw syngas production rate, the measured clean syngas rate, the heat content of the syngas, hourly slurry feed rate to each gasifier, and the sulfur

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
<p>period.</p> <p>C. The Department reserves the right to revisit above 800-hour limit at the time of permit r and revise it based on actual operating histo</p> <p>D. Upon commencement of a raw syngas flarir when one gasifier train is operating, the cok to the gasifier shall be reduced to 840 tons of coke within 2 hours. This 840 tons per c is only applicable to the gasifier in the raw s flaring mode and does not apply to the oth gasifier so long as it is producing clean syng through the AGR. If during two train opera both trains experience a raw syngas flaring , then coke feed to each gasifier shall be redu 600 tons per day within 2 hours.</p>	<p>B. The following records shall be maintained in accordance with Condition 3(b):</p> <ol style="list-style-type: none"> 1. Record of all periods of start up, shut d and process upsets that cause syngas to flared. Flare emissions shall be reporti the Department in accordance with the requirements of Section 304 of the Eme Planning and Community Right to Know 1986 and the Reporting requirements li below. 2. Record of all durations of flaring events description of event including: (1) the d time and duration of the flaring event; (whether the flaring was smokeless; (3) t of syngas flared (raw; raw/clean or clear the reason(s) and/or cause(s) of the flar event; and (5) any corrective action take result of the flaring event. 	<p>content of the coke slurry feed to each gasi daily average basis and on a rolling twelve r average basis.</p> <p>C. Calculated cumulative rolling twelve (12) mc flare emissions of SO₂, NO_x and CO during start-ups and shutdowns of gasification sec gas cooling section, the amine acid gas rem system, combustion turbines, sulfur recover slurry preparation system or air separation ;</p> <p>D. Calculated duration of syngas flaring during periods when start-ups, shutdowns, process malfunctions and safety trips occur in the combustion turbines, gasification section, g cooling section, the amine acid gas removal system, the slurry preparation section, the r sulfur recovery unit or in the air separation ; a rolling twelve (12) month basis.</p> <p>E. All periods when calculated PM10 emission exceed 6.57 TPY on a rolling twelve (12) mo basis</p>
<p>2. Particulate Emissions:</p> <p>i. Emission Standards: [Reference APC-97/0504-OP dated 08/06/2003]</p>	<p>iii. Compliance Method: [Reference APC-97/0504-OPE dated 08/06/2003]</p> <p>A. Compliance with emission standard (A) shal</p>	<p>vi. Certification Requirement: None in addition to those listed in Condition 3(c this permit.</p> <p>vi. Reporting: [Reference APC-97/0504-OPERATION, date 08/06/2003] Comply with "Conditions Applicable to Multiple</p>

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
A. The Company shall not cause or allow the e of particulate matter (PM10) in excess of 6.5 from cooling tower operations on a rolling 1 (12) month basis. B. The Company shall not cause or allow the emissions of particulate matter in excess of grains per standard cubic foot from the coo tower operations. [Reference Regulation No. 5 S 2.1, dated 02/01/1987]	based on Monitoring, Recordkeeping and Reporting Requirements.	Pollutants" in Condition 3, Table 1.c.1.v (EU-82).
	B. Compliance with emission standard (B) shall demonstrated by installing high efficiency r eliminators having a vendor guaranteed er factor of 0.002 percent drift loss per pound cooling water circulation.	vii. Certification Requirement: None in addition to those listed in Condition 3(c this permit.
ii. Operational Limitation: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.c.1 (EU-82).	iv. Monitoring/Testing: [Reference APC-97/0504-OPER dated 08/06/2003] A. The Company shall conduct a quarterly test solids using Method 2540B of Standard Me for the Examination of Water and Wastewat B. The Company shall continuously monitor cc water flow rate.	
	v. Recordkeeping: [Reference APC-97/0504-OPERATION 08/06/2003] The following records shall be maintained in accor with Condition 3(b): A. Quarterly test resul total solids using Method 2540B of Standar Methods for the Examination of Water and Wastewater. B. Continuous cooling water flow rates.	
3. Sulfur Dioxide (SO ₂):	iii. Compliance Method: [Reference APC-97/0504-OPE dated 08/06/2003]	vi. Reporting:
i. Emission Standard: [Reference APC-97/0504-OPE		Comply with "Conditions Applicable to Multiple

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination			
Emission	Methodology	Reporting/Compliance	
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification	
and/or Operational	Procedures (as applicable)		
Limitation(s)/Standard(s)	and Record Keeping)		
<p><i>dated 08/06/2003]</i> The Company shall not cause or allow emission in excess of 709 tons from the flare during process upsets, planned start-ups and planned shut down gasification section, gas cooling section, amine removal system, combustion turbines, sulfur recovery unit or air separation plant in any rolling twelve month period.</p>			
<p>ii. Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.c.1 (EU-82).</p>	<p>Compliance shall be demonstrated as follows:</p> <p>A. Emissions from raw syngas flaring shall be determined based on the coke and flux slurry to the gasifier and the percent sulfur in the solids from the daily sample required by Monitoring Testing requirement (A).</p> <p>B. Emissions from clean syngas flaring shall be determined from the flow and sulfur content of clean syngas as measured by the TRS analyzer.</p>		<p>Pollutants" in Condition 3, Table 1.c.1.v (EU-82).</p>
	<p>iv. Monitoring/Testing: [Reference APC-97/0504-OPER dated 08/06/2003]</p> <p>A. The Company shall monitor the sulfur content of the coke slurry on a daily basis when raw syngas is diverted to this flare.</p> <p>B. The Company shall use the Department approved monitoring protocol to determine the sulfur content in the coke slurry fed to each gasifier. The monitoring protocol shall be used to determine the rate of sulfur entering the gasifier using daily sampling and analysis for sulfur in the coke slurry.</p>		<p>vii. Certification Requirement: None in addition to those listed in Condition 3(c) of this permit.</p>
	<p>v. Recordkeeping: [Reference APC-97/0504-OPERATION dated 08/06/2003]</p> <p>The following records shall be maintained for all events in accordance with Condition 3(b):</p>		

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
	<ul style="list-style-type: none"> A. Hourly raw and clean syngas production rate to each gasifier. B. Hourly coke and flux slurry rates to each gasifier. C. Sulfur content in the coke slurry sampled and analyzed daily when raw syngas is diverted to flare. D. 24-hour rolling average and twelve (12) month rolling average sulfur content in the clean syngas. E. Cumulative rolling twelve (12) month flare sulfur emissions. F. Record of all durations of raw syngas flaring events. 	
<p>4. NO_x Emissions:</p> <p>Emission Standard: [Reference: Air Quality Construction Permit Application, dated May 1997 and Letter with spreadsheet attachment from Mike Gritz to Ravi Rangan dated July 28, 2007]</p> <p>The Company shall not cause or allow the release of NO_x in excess of 28 tons from the flare during process upsets, planned start-ups and planned shutdowns of gasification section, gas cooling section, amine acid gas removal system, combustion turbine, sulfur recovery unit or air separation plant in any rolling twelve (12) month period.</p>	<p>Compliance Method: [Reference Regulation No. 30 Section 6(a)(3)(i)(B), dated 12/11/2000]</p> <p>Compliance with the Emission Standard shall be based on Monitoring and Recordkeeping requirements.</p> <p>Monitoring/Testing: [Reference Regulation No. 30 Section 6(a)(3)(i)(B), dated 12/11/2000]</p> <p>The Company shall continuously monitor the type and the duration of each type of fuel combusted in the flare.</p> <p>Recordkeeping: [Reference Regulation No. 30 Section 6(a)(3)(i)(B), dated 12/11/2000]</p> <p>The Company shall maintain the following records in accordance with Condition 3(b):</p>	<p>Reporting:</p> <p>None in addition to those listed in Condition 3(c)(2) of this permit.</p> <p>Certification:</p> <p>None in addition to those listed in Condition 3(c)(3) of this permit.</p>
<p>Operational Limitations:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.c.1 (EU-82).</p>		

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
	<ul style="list-style-type: none">Amount of raw and clean syngas flared.Continuous record of the hours that each fuel is combusted.Twelve (12) month running totals calculated each month for the previous calendar month of amount and duration of each fuel type.	
CO Emissions: Emission Standard: <i>[Reference: Air Quality Construction Permit Application, dated May 1997 and Letter with spreadsheet attachment from Mike Gritz to Ravi Rangan dated July 28, 2007]</i> The Company shall not cause or allow the emission of CO in excess of 1,117 tons from the flare during process upsets, planned start-ups and planned shut downs of gasification section, gas cooling section, amine acid gas removal system, combustion turbines, sulfur recovery unit or air separation plant in any rolling twelve (12) month period.	Compliance Method: <i>[Reference Regulation No. 30 Section 6(a)(3)(i)(B), dated 12/11/2000]</i> Compliance with the Emission Standard shall be based on Monitoring and Recordkeeping requirements.	Reporting: None in addition to those listed in Condition 3(c)(2) of this permit.
Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.c.1 (EU-82).	Monitoring/Testing: <i>[Reference Regulation No. 30 Section 6(a)(3)(i)(B), dated 12/11/2000]</i> The Company shall continuously monitor the type and the duration of each type of fuel combusted in the flare. Recordkeeping: <i>[Reference Regulation No. 30 Section 6(a)(3)(i)(B), dated 12/11/2000]</i> The Company shall maintain the following records in accordance with Condition 3(b): <ul style="list-style-type: none">Amount of raw and clean syngas flared.Continuous record of the hours that each fuel is combusted.Twelve (12) month running totals calculated each month for the previous calendar month of	Certification: None in addition to those listed in Condition 3(c)(3) of this permit.

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Reporting/Compliance Certification
Visible Emissions: Emission Standard: [Reference APC-97/0504-OPERATION, 08/06/2003] Emissions from the flares shall be smokeless except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours. Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.c.1 (EU-82).	Compliance Method: [Reference APC-97/0504-OPERATION, 08/06/2003] Compliance with the visible Emission Standard shall be determined by the Monitoring/Testing requirement. Monitoring/Testing: [Reference APC-97/0504-OPERATION, 08/06/2003] Compliance with the visible Emission Standard shall be determined by Reference Method 22 of Appendix "A" in 40 CFR 60. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.c.1.iv (EU-82).	Reporting: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.c.1.v (EU-82). Certification: None in addition to those listed in Condition 3(c)(3) of this permit.
mission Unit 84: Combined Cycle Units 84-1 and 84-2 (Emission Points 84-1 and 84-2) Conditions Applicable to Multiple Pollutants: Emission Standards: [Reference APC-97/0503 (A3)] c. The Company shall not cause or allow emissions from the CCUs that exceed the Standards of Performance for New Stationary Gas Turbines specified in 40 CFR 60 Subpart GG. [Reference 40 CFR 60 Subpart GG dated 09/10/1979 for SO ₂ and	Compliance Method: [Reference APC-97/0503 (A3)] c. Compliance with the Emission Standards (A) and (NSPS limits) shall be based on the type of combustor and/or compliance with the most stringent emission limits specified for individual pollutants for these units. d. Compliance with the Operational Limitations (A	Reporting: [Reference APC-97/0503 (A3)] c. The Company shall submit the following semi-annual excess emissions reports. The reports for the preceding semi-annual period shall be submitted to the Department by January 31 and July 31 of each calendar year with a summary of all excess emissions for the semi-annual period. The

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Reporting/Compliance Certification
<p><i>10/17/2000 for NO_x, and Regulation No. 20 Section 11/27/1985]</i></p> <p>b. The Company shall not cause or allow emissions from the duct burners that exceed the Standard Performance for Electric Utility Steam Generating Units specified in 40 CFR 60 Subpart Db. <i>[Reference 40 CFR 60 Subpart Db dated 10/17/2000 for sulfur dioxide and particulate matter and dated 08/14/2001 for NO_x and particulate matter]</i></p> <p>c. The Department reserves the right to establish emission limitations and/or additional controls for sulfur compounds based on the results of the state required under the Monitoring/Testing requirements. D. Comply with "Combined Limits" in Condition 3, Table 1.f</p> <p>Operational Limitations: <i>[Reference APC-97/0503 (A3)]</i></p> <p>a. When syngas is not fired in the combustion chamber of the CCUs, only low-sulfur diesel fuel (LSD) shall be fired in its place. The combined utilization of LSD for both CCUs may not exceed 11,111 gallons in any twelve (12) consecutive months.</p> <p>b. The sulfur content in the LSD oil shall not exceed 0.05 weight percent.</p> <p>c. Only natural gas may be fired in the duct burner HRSGs. The combined utilization of natural gas shall not exceed 930,080 mmBtu/year in any</p>	<p>(C) (pertaining to type and amount of fuel burned) shall be based on record keeping requirements.</p> <p>b. Compliance with Operational Limitation (B) (pertaining to sulfur content of LSD) shall be based on monitoring/testing requirements.</p> <p>c. [RESERVED]</p> <p>d. Compliance with the Operational Limitation (F) shall be based on record keeping requirements.</p> <p>e. Comply with "Combined Limits" in Condition 3, Table 1.f</p> <p>Monitoring/Testing: <i>[Reference APC-97/0503 (A3)]</i></p> <p>a. LSD sulfur content shall be determined by ASTM D-2622 or other federal or Department approved method.</p> <p>b. [RESERVED]</p> <p>c. Comply with "Combined Limits" in Condition 3, Table 1.f</p> <p>Recordkeeping: <i>[Reference APC-97/0503 (A3)]</i></p> <p>a. [RESERVED]</p> <p>b. The following records shall be maintained in accordance with Condition 3(b):</p> <p>1. Record of all operating hours of each CCU showing clearly the hours of operation with different fuel types, i.e., hours of operation with</p>	<p>summary shall include::</p> <ol style="list-style-type: none"> 1. The name and location of the facility; 2. The subject sources that caused the excess emissions; 3. The time and date of the first observation of excess emissions; 4. The cause and expected duration of the excess emissions; 5. The estimated amount of emissions (expressed in the units of applicable emission limitation) and 6. The proposed corrective actions and schedule to correct the conditions causing the excess emissions. 7. LSD fuel usage by each CCU exceeding 11,111 gallons in any twelve (12) consecutive months and natural gas fuel usage in the duct burner exceeding 930,080 mmBtu in any twelve consecutive months. 8. [RESERVED] 9. [RESERVED] 10. All periods when the LSD sulfur content exceeded 0.05 weight percent. 11. [RESERVED] 12. [RESERVED] 13. [RESERVED] <p>d. The Company shall notify the Department in writing</p>

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
<p>twelve consecutive months.</p> <p>g. [RESERVED]</p> <p>h. [RESERVED]</p> <p>i. The periods of startups, shutdowns and fuel transfer (syngas to LSDF and LSDF to syngas) shall not exceed 2 hours in duration.</p> <p>j. Comply with "Combined Limits" in Condition 3, Table 1.f</p>	<p>and LSDF, and the amount of each fuel consumed.</p> <p>2. Record of all operating hours of the duct burners, each HRS showing clearly the hours of operation and the amount of natural gas consumed.</p> <p>3. [RESERVED]</p> <p>4. [RESERVED]</p> <p>5. [RESERVED]</p> <p>6. The weight percent sulfur content in LSDF.</p> <p>7. [RESERVED]</p> <p>Comply with "Combined Limits" in Condition 3, Table 1.f</p>	<p>prior to making any material changes which would cause these units to fall under the Authority of Title V of the Clean Air Act.</p> <p>Comply with "Combined Limits" in Condition 3, Table 1.f</p> <p>Certification Requirement: None in addition to those listed in Condition 3(c)(3) of this permit.</p>
<p>Particulate Emissions:</p> <p>Emission Standards: [Reference APC-97/0503 (A3)]</p> <p>a. [RESERVED]</p> <p>b. PM10 emissions including H₂SO₄ shall not exceed the following limits:</p> <p>1. 0.0426 lb/mmBtu heat input when firing syngas in the CCUs.</p> <p>2. 0.0431 lb/mmBtu when firing syngas in the duct burners and natural gas in the duct burners.</p> <p>3. 0.0090 lb/mmBtu when firing LSDF in the CCUs.</p> <p>4. 0.0093 lb/mmBtu when firing LSDF in the CCUs and natural gas in the duct burners.</p> <p>5. [RESERVED]</p> <p>6. TSP emissions shall not exceed the following limits:</p>	<p>Compliance Method: [Reference APC-97/0503 (A3)]</p> <p>a. Compliance with PM10 Emission Standards shall be demonstrated using stack test based emission factors and fuel flow rates for the CCUs and duct burners.</p> <p>b. Compliance with TSP Emission Standards shall be demonstrated using stack test based emission factors and fuel flow rates for the CCUs and duct burners.</p> <p>c. The Company may use stack test results obtained from the CCUs are operating with duct burners to demonstrate compliance with the respective non-duct burner emission standards for PM10 and TSP by subtracting the heat input of the</p>	<p>Reporting: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1.vi (EU-84).</p> <p>Certification Requirement: None in addition to those listed in Condition 3(c)(3) of this permit.</p>

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Reporting/Compliance Certification
1. 0.0076 lb/mmBtu heat input when firing syngas in the CCUs.		
2. 0.0081 lb/mmBtu when firing syngas in the duct burners.		
0.0090 lb/mmBtu when firing LSDF in the CCUs.		
0.0093 lb/mmBtu when firing LSDF in the CCUs and natural gas in the duct burners.		
[RESERVED]		
Operational Limitation: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1 (EU-84).	Monitoring/Testing: i. The Company shall conduct the following stack testing annually, in accordance with Condition 3(b): 1. EPA Reference Method 5 for TSP. 2. EPA Reference Method 5B/202 for PM10, in H ₂ SO ₄ . 3. If the Company conducts stack testing with duct burners in operation, the Company shall calculate the emission rate for operation without duct burner operation by subtracting the heat input contributed by the duct burners. 4. The Company may petition the Department to decrease the frequency of TSP or PM10 performance tests based on the results of performance testing. j. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1.iv (EU-84). Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1.v (EU-84).	
RESERVED]		

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Reporting/Compliance Certification
<p>Nitrogen Oxides (NOx): Emission Standards: [Reference APC-97/0503 (A3)] RESERVED]B. The Company shall not cause or allow emission of NOx in excess of 360 TPY from CCU.</p> <p>1. The NOx emissions from each CCU shall not exceed the following levels on an hourly basis:</p> <ol style="list-style-type: none"> 1. 15 ppmvd @ 15% O₂ when CCU burns syngas without duct firing. 2. 18 ppmvd @ 15% O₂ when CCU burns syngas with duct firing. 3. 42 ppmvd @ 15% O₂ when CCU burns LSDF without duct firing. 4. 39 ppmvd @ 15% O₂ when CCU burns LSDF with duct firing. <p>2. The NOx emission rates from the CCUs shall not exceed 390 ppmvd @ 15% O₂ during startups, shutdowns and fuel transfers (syngas to LSDF and LSDF to syngas).</p> <p>3. Except during startup, shutdown and fuel transfers, the Company shall not cause or allow the emission of NOx in excess of the following based on a 24-hour average:</p> <ol style="list-style-type: none"> 1. 42 ppm @ 15% O₂ when combusting gas. 2. 88 ppm @ 15% O₂ when combusting LSDF. <p>[Reference Regulation No. 12 Section 3.5, dated 11/24/1995, as amended (RACT)]</p>	<p>Compliance Method: [Reference APC-97/0503 (A3)]</p> <ol style="list-style-type: none"> 1. Compliance with the NOx Emission Standards shall be based on Continuous Emissions Monitoring System (CEMS) for NOx and O₂. 2. Compliance with the Operational Limitations shall be based on Recordkeeping requirements. <p>Monitoring/Testing: [Reference APC-97/0503 (A3)]</p> <ol style="list-style-type: none"> 1. The Company shall operate and maintain NOx CEMS for the CCUs. 2. The CEMS shall satisfy the applicable Performance Specifications in 40 CFR Part 75, Appendix A, and the Quality Assurance/Quality Control (QA) procedures for NOx CEMS in accordance with 40 CFR Part 75, Appendix "B." <p>3. [RESERVED]</p> <p>Recordkeeping: [Reference APC-97/0503 (A3)]</p> <ol style="list-style-type: none"> 1. The Company shall keep NOx CEMS data calibration and audit results in accordance with Condition 3(b). 2. Unless otherwise provided, the owners and operators of the NOx Budget source and each NOx Budget unit at the source shall keep on site at the source each of the following documents in accordance with Condition 3(b). This period may be extended for cause, at any time prior to the 	<p>Reporting: The NOx authorized account representative of a NOx Budget source and each NOx Budget unit at the source shall submit the reports and compliance certifications required under the NOx Budget Trading Program, including those under Regulation No. 39 Sections 7, 8, and 11.</p> <p>Certification Requirement: [Reference: Permit: AQM-003, dated 05/01/2002 and Regulation No. 39 Section 6(d) dated 12/11/2000]</p> <p>In addition to those listed in Condition 3(c)(3) of this permit, each document submitted to the Department and the Administrator pursuant to the NOx Budget requirements shall be signed and certified by the Authorized Account Representative and shall contain the following language:</p> <p><i>"I am authorized to make this submission on behalf of the owners and operators of the NOx Budget sources or NOx Budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those</i></p>

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
<p>. During the ozone season (May 1 through September of 2008), the Company shall hold in its company account and/or its overdraft account, as of NO_x allowance transfer deadline of each compliance period, a quantity of NO_x allowances available for deduction that is equal to or greater than the NO_x emissions from each CCU for that compliance period. [Reference: Permit: AQM-003/00016-I dated 05/01/2002 and Regulation No. 39 Section 2(a) dated 05/01/2002 (NO_x Budget Trading Program)]</p> <p>Operational Limitations: [Reference APC-97/0503 (A3)]</p> <p>u. NO_x control shall be achieved by injecting nitrogen into the combustion chambers of the CCUs burning syngas and by steam injection when burning LSDF.</p> <p>i. Except during start ups, shut downs and fuel transitions (syngas to LSDF and LSDF to syngas), the CCU shall not be operated unless the NO_x control measure described in Operational Limit (A) is operating properly.</p>	<p>of 5 years, in writing by the permitting authority or the Administrator.</p> <p><u>1</u> The account certificate of representation under Regulation No. 39 Section 6 and all documents that demonstrate the truth of the statements in the account certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5 year period. If such documents are superseded because of the submission of a new account certificate of representation under Regulation No. 39 Section 6 changing the NO_x authorized account representative.</p> <p><u>2</u> All emissions monitoring information, in accordance with Regulation No. 39 Section 6.</p> <p><u>3</u> Copies of all reports, compliance certificates, and other submissions and all records made required under the NO_x Budget Trading Program.</p> <p><u>4</u> Copies of all documents used to complete a NO_x Budget permit application and any other submission under the NO_x Budget Trading Program or to demonstrate compliance with the requirements of the NO_x Budget Trading Program.</p> <p><u>5</u> Records demonstrating that any unit exempt</p>	<p><i>individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."</i></p>

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Reporting/Compliance Certification
Carbon Monoxide (CO): Emission Standards: [Reference APC-97/0503 (A3)] a. [RESERVED] b. CO emissions on an hourly basis shall not exceed the following limits: 1. 0.051 lb/mmBtu heat input when firing syngas in the CCUs without duct burners. 2. 0.069 lb/mmBtu when firing syngas in the CCUs and natural gas in the duct burners. 3. 0.048 lb/mmBtu when firing LSDF in the CCUs without duct burners. 4. 0.067 lb/mmBtu when firing LSDF in the CCUs and natural gas in the duct burners. c. The above lb/mmBtu limits shall not apply during periods of startup, shutdown and fuel transition (syngas to LSDF and LSDF to syngas). The Company shall follow good air pollution control practices to minimize CO emissions during these periods.	Compliance Method: [Reference APC-97/0503 (A3)] Compliance with the CO Emission Standards shall be based on the following methods: a. CEMS for the CCUs. b. [RESERVED] c. [RESERVED] Monitoring/Testing: [Reference APC-97/0503 (A3)] a. The Company shall operate and maintain CO CEMS at the CCUs. b. [RESERVED] c. The CO CEMS shall satisfy the applicable Performance Specifications in 40 CFR part 60, Appendix A. The QA/QC procedures for the CO CEMS shall be established in accordance with the procedures in 40 CFR Part 60 Appendix "F." Recordkeeping: The Company shall maintain CO CEMS data, calibration and audit results in accordance with	Reporting: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1.vi (EU-84). Certification Requirement: None in addition to those listed in Condition 3(c)(3) of this permit.

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Reporting/Compliance Certification
Operational Limitations: [Reference APC-97/0503 (A3)] Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1 (EU-84). Volatile Organic Compounds (VOC): Emission Standards: [Reference APC-97/0503 (A3)] a. [RESERVED] b. VOC emissions shall not exceed the following limits: 1. 0.0011 lb/mmBtu heat input when firing syngas in the CCUs without duct burners. 2. 0.0048 lb/mmBtu when firing syngas in the CCUs and natural gas in the duct burners. 3. 0.0048 lb/mmBtu when firing LSDF in the CCUs without duct burners. 4. 0.0108 lb/mmBtu when firing LSDF in the CCUs and natural gas in the duct burners. Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1 (EU-84).	Condition 3(b). Compliance Method: [Reference APC-97/0503 (A3)] a. Compliance with the VOC Emission Standards shall be demonstrated using stack test based emission factors and fuel flow rates for the CCUs and duct burners. b. The Company may use stack test results obtained from the CCUs are operating with duct burners to demonstrate compliance with the respective non-duct burner emission standards for VOC by subtracting the heat input of the duct burners. Monitoring/Testing: a. The Company shall conduct annually an EPA Reference Method 25 A stack test for VOC, in accordance with Condition 3(b). The Company may petition the Department to decrease the frequency of performance tests based on the results of performance testing. b. If the Company conducts stack testing with the duct burners in operation, the Company shall calculate the emission rate for operation without duct burner operation by subtracting the heat input contributed by the duct burners.	Reporting: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1.vi (EU-84). Certification: None in addition to those listed in Condition 3(c)(3) of this permit.

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

∴ Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1.iv (EU-84).

Recordkeeping:
Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1.v (EU-84).

[RESERVED]

RESERVED]

Visible Emissions:
Emission Standard: [Reference APC-97/0503 (A3)]
The Company shall not cause or allow the emission of visible air contaminants from the CCUs in excess of twenty percent (20%) opacity for an aggregate of more than three (3) minutes in any one (1) hour period, or more than fifteen (15) minutes in any twenty-four (24) hour period.

Operational Limitations:
Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1 (EU-84).

Compliance Method: [Reference APC-97/0503 (A3)]
Compliance with the visible Emission Standard shall be based on Monitoring/Testing requirements and on information available to the Department which may include, but is not limited to, monitoring results, opacity and process operating data.

Monitoring/Testing: [Reference APC-97/0503 (A3)]
The opacity of visible emissions shall be verified quarterly by EPA Reference Method No. 9 in accordance with Section 1.5 (c) of Regulation No. 20 for any calendar quarter during which No. 2 fuel oil is fired in the combustion chambers of the CCUs, unless the Company can demonstrate

Reporting:
The Company shall provide quarterly reports of all periods of opacity exceedances in the quarterly excess emission report required by Condition 3, Table 1.d.1.vi.C.

Certification:
None in addition to those listed in Condition 3(c)(3) of this permit.

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

that verification for that calendar quarter was not practicable due to the length of time fuel oil was fired in the combustion chambers or other issues demonstrating impracticability. The Company shall, however, perform at least one Method No. 9 verification during each calendar year. If opacity readings over 20% are recorded at any time, the Department reserves the right to require the Company to conduct more frequent visible emissions observations and may include the requirement to install a COMS.

Recordkeeping:

In addition to complying with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.d.1.v (EU-84), the Company shall keep the opacity readings recorded in accordance with the Monitoring/Testing requirements when LSDF is fired in the combustion chambers of the CCUs.

Facility-Wide: The following permit conditions are applicable to all emission units listed in Condition No. 1 of this permit and any insignificant activity in Regulation No. 30 Appendix A operated by the Company.

Conditions applicable to Multiple Pollutants:
Operational Limitations:

Compliance Method:
Compliance shall be based on information

Reporting Requirement:
None in addition to those listed in Condition

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
<p>c. At all times, including periods of startup, shutdown and malfunction, the owner or operator shall maintain and operate the equipment and processes covered by this Permit, including structural and mechanical components and associated air pollution control equipment in a manner consistent with good air pollution practice for minimizing emissions.</p> <p>d. [RESERVED]</p>	<p>available to the Department which may include, but is not limited to, monitoring/testing results, opacity and process operating data.</p> <p>Monitoring & Testing: None in addition to those listed in Condition 3(b)(1)(ii) of this permit.</p> <p>Recordkeeping: None in addition to those listed in Condition 3(b)(2) of this permit.</p>	<p>3(c)(2)(ii)(B) of this permit.</p> <p>Certification Requirement: None in addition to those listed in Condition 3(c)(3) of this permit.</p>
<p>Odor: Emission Standard: [Reference APC-97/0504] Odors from this source shall not be detectable beyond the plant property lines in quantities which cause a condition of air pollution as "air pollution" is defined in Regulation 1 of Delaware's <u>Regulations Governing the Control of Air Pollution</u>. [State Enforceable Only]</p>	<p>Compliance Method: [Reference Regulation No. 30 Section dated 12/11/2000] Compliance with the emission standard of this condition shall be demonstrated in accordance with the monitoring/testing and record keeping requirements of this condition and based on information available to the Department which may include, but is not limited to, monitoring results and process operating data.</p>	<p>Reporting Requirement: All records indicating exceedance of the standard in accordance with Condition 3(c)(2) of this permit</p> <p>Certification Requirement: None in addition to those listed in Condition 3(c)(3) of this permit.</p>
<p>Operational Limitations: None in addition to those listed in Condition 3(a) of this permit.</p>	<p>Monitoring & Testing: [Reference Regulation No. 19 Section dated 2/1/81] Includes but is not limited to scentometer tests, air quality monitoring, and affidavits from affected citizens and investigators.</p>	

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
Recordkeeping: [Reference Regulation No. 30 Section 6(a) dated 12/11/2000] Records of all monitoring/testing shall be maintained on site in accordance with Condition 3(b).		
Visible Emissions: Emission Standard: [Reference Regulation No. 14 Section 07/17/1984] The Company shall not cause or allow the emission of visible air contaminants and/or smoke from a stationary or mobile source, the shade or appearance of which is greater than twenty (20%) percent opacity for an aggregate of more than three (3) minutes in any one (1) hour or more than fifteen (15) minutes in any twenty-four (24) hour period.	Compliance Method: [Reference Regulation No. 14 Section 07/17/1984 and Regulation No. 30 Section 6(a)(3) dated 12/11/2000] Except for units where compliance with the visible emission standard is required to be demonstrated by a COMS or where compliance is otherwise specified within this permit, compliance with the visible Emission Standard of this condition shall be demonstrated in accordance with Subsection 1.5(c) of Regulation No. 20 and the record keeping requirements of this condition.	Reporting: All records indicating exceedances of the standard in accordance with Condition 3(c)(2) of this permit. Certification: None in addition to those listed in Condition 3(c)(3) of this permit.
Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.e.1 (Facility-wide).	Monitoring/Testing: a. [RESERVED] b. For sources not subject to a specific visible emission requirement within this permit, the Company shall conduct weekly qualitative observations to determine the presence of any visible emissions. 1. If visible emissions are observed, the Company shall take corrective actions and/or demonstrate compliance in accordance with subparagraph	

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

- 3 below. 2. If no visible emissions observed or are within permitted limits, further action is required.
3. If required under subparagraph 1 above, the Company shall, in accordance with Regulation No. 30 Section 1.5, conduct visual observations at fifteen second intervals for a period of not less than one hour except that the observations may be discontinued whenever a violation of the standard is recorded. The additional procedures, qualifications and testing to be used for visually determining the opacity shall be those specified in Section 2 and 3 (except Section 2.5 and the second sentence of Section 2.4) of reference Method 9 set forth in Appendix A, 40 CFR Part 60 revised July 1982..

[Reference Regulation No. 30 Section 6(a)(3) dated 12/11/2000]

Recordkeeping: *[Reference Regulation No. 30 Section 6(a) dated 12/11/2000]*

Observation records shall be maintained on site in accordance with Condition 3(b).

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	

Combined Limits: The following permit conditions are applicable to multiple emission units as noted below:

Conditions Applicable to Multiple Pollutants:

Operational Limitations

During single train operation of the gasifier, the sulfur content in the clean syngas shall not exceed 50 ppmvd on a 24-hour rolling average basis and 100 ppmvd on a twelve month rolling average basis measured by the TRS analyzer. Within 60 days of achieving sustained two train operation at the rate, the company shall propose for the Department approval a short term and annual TRS limits for gasifier train operations. In the interim period, during two train operations, the sulfur content in the clean syngas shall not exceed 830 ppmvd on a 24 hour rolling average basis. [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]

The H2S content of the RFG shall not exceed 0.10 % by weight in any fuel burning equipment. [Reference APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)] The Company shall not cause or allow the use of any distillate fuel oil having a sulfur content greater than 1.0 % by weight in any fuel burning equipment. [Reference 40 CFR Part 60, Appendix "B." Relative accuracy evaluations shall be conducted using Method 15 of 40 CFR Part 60, Appendix "B."]

Compliance Method: [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]

Compliance with Operational Limitations (A) and (B) shall be based on the TRS CEMS and H2S CEMS respectively. Compliance with Operational Limitation (C) shall be based on recordkeeping.

Monitoring/Testing [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]

The Company shall continuously monitor and record the concentration (dry basis) of TRS in syngas before it is combusted in any fuel burning device. The TRS monitor shall be located downstream of all process steps which impact the composition of syngas prior to its being combusted in any fuel burning device. The TRS monitor shall conform to the QA/QC requirements recommended by the manufacturer's specifications and listed in the Quality Assurance Plan for the TRS monitor. The TRS monitor shall comply with Performance Specification 5 of 40 CFR Part 60, Appendix "B." Relative accuracy evaluations shall be conducted using Method 15 of 40 CFR Part 60, Appendix "B."

Reporting: [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]

All stack test emission testing and monitor certification testing shall be performed in accordance with Section 101(b)(1)(iii).

The Company shall submit the following semi-annual excess emissions reports. The reports for the preceding semi-annual period shall be submitted to the Department by January 31 and July 31 of each calendar year with a summary of all excess emissions for the semi-annual period. The summary shall include:

- the name and location of the facility;
- the subject sources that caused the excess emissions;
- the time and date of the first observation of the excess emissions;
- the cause and expected duration of the excess emissions;
- the estimated amount of emissions (expressed in terms of applicable emission limitation);
- the proposed corrective actions and schedule to correct the conditions causing the excess emissions.

All periods during single train operation when the 24

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
	<p>A." [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]</p> <p>The Company shall continuously monitor and record the concentration (dry basis) of H₂S in RFG before it is combusted in any fuel burning device. The H₂S monitor shall be located downstream of all process steps that increase the concentration of H₂S in RFG prior to its combustion in any fuel burning device. The monitoring instrument shall conform to the QA/QC requirements of 40 CFR 60, Appendix "F." The monitoring instrument shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B." The Relative accuracy evaluations shall be conducted using Method 11 of 40 CFR Part 60, Appendix "A." [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5)]</p> <p>Recordkeeping: [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]</p> <p>The Company shall maintain all records necessary to determine compliance with this permit in accordance with Condition 3.b of this Permit.</p> <p>The following records shall be maintained:</p> <p>All 24-hour rolling and twelve (12) month rolling average sulfur content in clean syngas as measured by the TRS analyzer.</p> <p>The rolling average sulfur content in the syngas exceeds 162 ppmv (dry) and the twelve month rolling average sulfur content in the syngas exceeds 480 ppmv (dry) basis as measured by the TRS analyzer; and</p> <p>All periods during two train operation when the 24-hour rolling average sulfur content in the syngas exceeds 162 ppmv (dry) as measured by the TRS analyzer.</p> <p>The Company shall submit the following quarterly Compliance reports by January 31, April 30, July 31 and October 31 of each calendar year:</p> <p>The H₂S CMS reports shall include a report of all rolling 3 hour periods during which the average concentration of H₂S as measured by the H₂S CMS exceeds 162 ppmv (dry) or 0.10 grain/dscf, quarterly audit results for the period and details of all control periods. The data submitted to the Company's quarterly H₂S CMS NSPS report for the facility shall satisfy this reporting requirement.</p> <p>The SO₂ and NO_x CEMS reports shall include a report of excess emissions, quarterly audit</p>	

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
particulate Emissions: Emission Standards: [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)]A. The Company shall not cause or allow the emission of particulate matter (PM10) in excess of 311 TP from the CCUs (Emission Units 84-1 and 84-2) and 80-1, 80-2 and 80-3, combined (inclusive of H ₂ SO ₄ mist) on a rolling twelve (12) month basis. The Company shall not cause or allow the emission of suspended particulate (TSP) in excess of 78.7 TP from the CCUs (Emission Units 84-1 and 84-2 Boilers 80-1, 80-2 and 80-3, combined. The Company shall not cause or allow the emission of particulate matter in excess of 0.3 lb/mmBtu, maximum two (2) hour average, from any fuel equipment. [Reference Regulation No. 4 Section 2.1, 2/1/1981]	Compliance Method [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)] Compliance with PM10 Emission Standards shall be demonstrated using stack test based emission factors and fuel flow rates for the CCUs, duct burners and boilers. Compliance with TSP Emission Standards shall be demonstrated using stack test based emission factors and fuel flow rates for the CCUs, duct burners and boilers. Monitoring/Testing: The Company shall conduct the following stack tests annually, in accordance with Condition 3(b): • EPA Reference Method 5 for TSP. • EPA Reference Method 5B/202 for PM10, including H ₂ SO ₄ . • The Company may petition the Department to decrease the frequency of TSP or PM performance tests based on the results of any performance testing. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.iii.	results, data capture for the period and duration of control periods. Reporting: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.v. Certification Requirement: Comply with "Conditions Applicable to Multiple Pollutants" in addition to those listed in Condition 3(c)(3) of this permit.
Operational Limitation: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.		

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
Sulfur Dioxide (SO ₂): Emission Standards: [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)]	Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2. iv . Compliance Method: [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)] Compliance with the SO ₂ Emission Standards shall be based on Continuous Emissions Monitoring System (CEMS) for Boiler 80-3 and the CCUs and the H ₂ S Continuous Monitoring System (CMS) for Boilers 80-1 and 80-2.	Reporting: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.v . Certification Requirement: In addition to those listed in condition 3(c)(3) of this permit.
The Company shall not cause or allow the emission in excess of 2079.7 TPY from the CCUs (Emis Units 84-1 and 84-2) and Boilers 80-1, 80-2 and 80-3 combined.	Monitoring/Testing: [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)] The Company shall operate and maintain SO ₂ CEMS for Boiler 80-3 and the CCUs and H ₂ S CMS for Boilers 80-1 and 80-2. The SO ₂ CEMS for Boiler 80-3 and the CCUs shall comply with Performance Specification 2 of 40 CFR 60, Appendix B, and the Quality Assurance/Quality Control (QA/QC) procedures shall be established in accordance with 40 CFR, Appendix "F."v. Recordkeeping: [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]	
Operational Limitations Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2 .		

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
<p>Nitrogen Oxides (NO_x):</p> <p>Emission Standards: <i>[Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]</i></p> <p>The Company shall not cause or allow the emission in excess of 1,261 TPY from the CCUs (Emission Units 84-1 and 84-2) and Boilers 80-1, 80-2 and 80-3 combined on a rolling twelve (12) month basis</p> <p>Operational Limitations:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.</p>	<p>The Company shall maintain SO₂ CEMS data, calibration and audit results in accordance with Condition 3(b).</p> <p>Compliance Method: <i>[Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]</i></p> <p>Compliance with the NO_x Emission Standards shall be based on Continuous Emissions Monitoring System (CEMS) for NO_x and CO₂ for Boilers 80-1, 80-2 and 80-3 and the CCUs.</p> <p>Monitoring/Testing: <i>[Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]</i></p> <p>The Company shall operate and maintain NO_x and CO₂/O₂ CEMS for the boilers and the CCUs, respectively.</p> <p>The NO_x and CO₂/O₂ CEMS for boilers shall conform to the applicable Performance Specifications in 40 CFR 75, Appendix "A". The QA/QC procedures for the NO_x and CO₂/O₂ CEMS shall be established in accordance with 40 CFR 75, Appendix "B."</p> <p>Recordkeeping: <i>[Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)]</i></p> <p>The Company shall maintain NO_x CEMS data calibration and audit results in accordance with Condition 3(b).</p>	<p>Reporting:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.v.</p> <p>Certification Requirement: None, in addition to the requirements stated in Condition 3(c)(3) of this permit.</p>

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Reporting/Compliance Certification
Carbon Monoxide (CO): Emission Standards: [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)] The Company shall not cause or allow the emission in excess of 470.2 TPY from the CCUs (Emission Units 84-1 and 84-2) and Boilers 80-1, 80-2 and 80-3 combined on a rolling twelve (12) month basis	and audit results in accordance with Condition 3(b). Compliance Method: [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)] Compliance with the CO Emission Standards shall be demonstrated by the following methods: Stack test based emissions factor and fuel flow rate for Boilers 80-1 and 80-3. CEMS for Boiler 80-2 and the CCUs.	Reporting: Comply with "Conditions Applicable to Multiple Pollutant Condition 3, Table 1.a.2.v . Certification Requirement: In addition to those listed in Condition 3(c)(3) of the permit.
Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutant Condition 3, Table 1.a.2 .	Monitoring/Testing: [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)] The Company shall operate and maintain CO CEMS for Boiler 80-2 and the CCUs. The QA/QC procedures for the CO CEMS shall be established in accordance with the procedures in CFR Part 60, Appendix "F." For Boilers 80-1 and 80-3, the Company shall conduct annually an EPA Reference Method 10 stack test for CO. The Company may petition the Department to decrease the frequency of CO performance testing based on the results of any performance testing. Recordkeeping: For Boiler 80-2 and the CCUs, the Company shall maintain	

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
<p>Volatile Organic Compounds (VOC):</p> <p>Emission Standards: [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)]</p> <p>The Company shall not cause or allow the emission of VOC in excess of 22.7 TPY from the CCUs (E Units 84-1 and 84-2) and Boilers 80-1, 80-2 and 80-3 combined on a rolling twelve (12) month basis</p> <p>Operational Limitations:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.</p>	<p>CO CEMS data, calibration and audit results in accordance with Condition 3(b).</p> <p>For Boilers 80-1 and 80-3 the Company shall comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.iv.</p> <p>Compliance Method: [Reference APC-90/0288 (A5), APC-90/0290 (A5) and APC-97/0503 (A3)]</p> <p>Compliance with the VOC Emission Standards shall be demonstrated using stack test based emissions factor and fuel flow rates for the boilers and CCUs.</p> <p>Monitoring/Testing:</p> <p>The Company shall conduct annually an EPA Reference Method 25 A stack test for VOC, in accordance with Condition 3(b). The Company may petition the Department to decrease the frequency of VOC performance tests based on the results of any performance testing.</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.iii.</p> <p>Recordkeeping:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.iv.</p>	<p>Reporting:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.v.</p> <p>Certification:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in addition to those listed in Condition 3(c)(3) of the permit.</p>

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)	Reporting/Compliance Certification
<p>Sulfuric Acid Mist (H₂SO₄):</p> <p>Emission Standards: [Reference APC-90/0288 (A5), APC-94/0290 (A5) and APC-97/0503 (A3)]</p> <p>The Company shall not cause or allow the emission of H₂SO₄ in excess of 235.4 TPY from the CCUs (Emission Units 84-1 and 84-2) and Boilers 80-2 and 80-3, combined on a rolling twelve (12) month basis.</p> <p>Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.</p>	<p>Compliance Method: [Reference APC-90/0288 (A5), APC-94/0290 (A5) and APC-97/0503 (A3)]</p> <p>Compliance with the H₂SO₄ Emission Standards shall be demonstrated using stack test based emission factors and fuel flow rates for the boilers and CCUs. Compliance for the boiler 80-3 and the CCUs shall be demonstrated by applying the stack test based H₂SO₄ conversion factor to the CEMS-monitor emissions.</p> <p>Compliance for the Boilers 80-1 and 80-2 shall be demonstrated by applying the fuel gas monitor content to the H₂SO₄ conversion factor.</p> <p>Monitoring/Testing:</p> <p>The Company shall conduct annually an EPA Reference Method 8 stack test for H₂SO₄, in accordance with Condition 3(b). The Company may petition the Department to decrease the frequency of H₂SO₄ performance tests based on the results of any performance testing.</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.iii.</p> <p>Recordkeeping:</p>	<p>Reporting:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, Table 1.a.2.v.</p> <p>Certification:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3(c)(3) of the permit.</p>

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 3 - Table 1 (Specific Requirements)

Compliance Determination		
Emission	Methodology	Reporting/Compliance
Limitation(s)/Standard(s)	(Monitoring/Testing, QA/QC	Certification
and/or Operational	Procedures (as applicable)	
Limitation(s)/Standard(s)	and Record Keeping)	
Lead (Pb): Emission Standard: [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)] The Company shall not cause or allow the emission in excess of 0.02 TPY from the CCUs (Emission Units 84-1 and 84-2) and Boilers 80-1, 80-2 and 80-3 combined on a rolling twelve (12) month basis Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutant Condition 3, Table 1.a.2	Comply with "Conditions Applicable to Multiple Pollutant Condition 3, Table 1.a.1iv . i. Compliance Method: [Reference APC-90/0288 (A5), APC-90/0289 (A6), APC-90/0290 (A5) and APC-97/0503 (A3)] Compliance with the Pb Emission Standard shall be demonstrated by firing desulfurized fuel gas or clean syngas in the boilers and either clean syngas or LSI gas in the CCUs and natural gas in the duct burners. Monitoring/Testing: Comply with "Conditions Applicable to Multiple Pollutant Condition 3, Table 1.a.2.iii . Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutant Condition 3, Table 1.a.2.iv .	Reporting: Comply with "Conditions Applicable to Multiple Pollutant Condition 3, Table 1.a.2.v . Certification: Comply in addition to those listed in Condition 3(c)(3) permit.

For purposes of this Condition, "TPY" is defined as "tons emitted in any rolling twelve month period".

Condition 4. Operational Flexibility

- a. In addition to the operational flexibility specifically provided in the terms and conditions detailed in Condition 3 - Table 1 of this permit, the Company is authorized to make any change within the facility which contravenes the terms and conditions of this permit without a permit revision if the change:
 1. Is not a modification or otherwise prohibited under any provision of Title I of the Act or the State Implementation Plan (SIP); and [*Reference Regulation No. 30 Section 6(h), dated 12/11/2000*].
 2. Does not involve a change in any compliance schedule date; and [*Reference Regulation No. 30 Section 6(h), dated 12/11/2000*]
 3. Does not result in a level of emissions exceeding the emissions allowable under this permit, whether expressed herein as a rate of emissions or in terms of total emissions. [*Reference Regulation No. 30 Section 6(h), dated 12/11/2000*]
- b. Before making a change under the provisions of Condition 4(a) of this permit, the Company shall provide advance written notice to the Department and to the EPA in accordance with Condition 3(c)(2)(iii) of this permit. [*Reference Regulation No. 30 Section 6(h)(1), dated 12/11/2000*]
- c. The Company shall keep records of any change made under Condition 4 of this permit in accordance with Condition 3(b)(2)(iv) of this permit. [*Reference Regulation No. 30 Section 6(h)(1), dated 12/11/2000*]

Condition 5. Compliance Schedule

This permit does not contain a compliance schedule. [*Reference Regulation No. 30, Section (6)(c)(3), dated 12/11/2000*]

Condition 6. Permit Shield.

For purposes of this Condition, “TPY” is defined as “tons emitted in any rolling twelve month period”.

Compliance with the terms and conditions of this permit shall be deemed compliance with the applicable requirements as provided in Condition 6-Table 1 as of the effective date of this permit. [*Reference Regulation No. 30, Section (6)(f)(3), dated 12/11/2000*]

Condition 6 - Table 1

Emission Unit	Applicable Requirements
Emission Unit 80 Boiler Nos. 1, 2 and 3	Regulation No. 4, Section 2.1 Regulation No. 8, Section 2.1 Regulation No. 12, Section 3.2 Regulation No. 14, Section 2.1 Regulation No. 39
Emission Unit 80 Boiler No. 4	Regulation No. 4, Section 2.1 Regulation No. 8, Section 2.1 Regulation No. 12, Section 3.2 Regulation No. 14, Section 2.1 Regulation No. 36 and 40 CFR 72 Regulation No. 39
Emission Unit No. 82	Regulation No. 14, Section 2.1 Regulation No. 24, Section 29 and 40 CFR Subpart VV 40 CFR 60, Subpart A
Emission Unit No. 50	Regulation No. 5, Section 2
Emission Unit No. 84	Regulation No. 4, Section 2.1 Regulation No. 8, Section 2.1 Regulation No. 12, Section 3.5 Regulation No. 14, Section 2.1 Regulation No. 20, Section 26 and 40 CFR 60 Subpart D6 Subpart J and Regulation 20, Section 11 and 40 CFR 60 Regulation No. 20, Section 10 and

For purposes of this Condition, “TPY” is defined as “tons emitted in any rolling twelve month period”.

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	40 CFR 60 Subpart GG i. Regulation No. 25, Section 2 Regulation No. 39, Section 2
Facility-wide	Regulation No. 14, Section 2.1 Regulation No. 17, Section 4 Regulation No. 19, Section 2.1

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pc: Dover Title V File

Bruce Steltzer

For purposes of this Condition, “TPY” is defined as “tons emitted in any rolling twelve month period”.